Hackman, C.D.

1964

October 13

60

Catalog

Baker Island, Pacific Ocean:

20. Pluvialis dominica & Ovary 5x4mm 60.8 gms.

Bill black, feet black, legs grey. Bird was exhausted and emaciated. It was unable to fly and was easily caught by hand. Stomach saved [40470]

21. Squid sp. regurgitated by Sula daetylatra at 1700.

October 18 McKean Island, Pacific Ocean

22. Small fish (halfbeak sp.?) from netted Gygis alba

at 1500.

23. Squid sp. regurgitated by Gygis alba nestling at 1300.

October 19
24 Two squid sp. from netted Gygis alba at 1500.

25. Sterna lunata & Ovary 12mm. l. ovum 3mm 103.1qm.

Tris brown, bill black, feet and legs black. Stomach

Saved. [4050]

26 Numerius tahitiensis. Found dead - badly decomposed. Skeletonized [40496]

27. Two fish from netted Gygis alba at 1530.

28 Gygis alba of Testes 5x2mm. 92.0 gms.

Itis dark brown bill black with blue base, legs and

feet blue. [405/5] Stomach Saved.

Hackman, C.D. Catalog

1964

October 23 Gandner Island, Pacific Ocean

29. Pluvialis dominica & Ovary 9mm. ova minute 1/9.2gms.

Iris brown, bill brownish-black, feet and legs grey. Stomach

saved. [40552]

30. Pluvialis dominica & Ovary 6mm. ova minute 122.0gms.

30. Pluvialis dominica f. Ovary 6 mm. ova minute 122.0 gms. Itis brown, bill brownish-black, feet and legs grey. Stomach saved. [4055]

31. Anous stolidus of Testes L. 7x3mm R5x2mm. 155.5 yms.

November 6 Phoenix Island, Pacific Ocean

32 Small fish taken from a netted Gygis alba at 1430.

Novembe 7

33 Sula dactylatra - Alcoholic - 1699.5 gms.

Iris yellow. bill yellow, legs + feet greenish-yellow, gular skin black [40603].

November 8 Birnie Island, Pacific Ocean

34. Heteroscelus incanum of Testes 2 x 1 mm 87.3 gms.

Iris brown, bill dark olive, feet and legs yellow. Stomach saved [40623]

November 9

35 Two squid taken from a netted Gygis alba at 0800.

November 11 Enderbury Island, Pacific Ocean

36. Freguta minor of Testes R12x10mm L15x9mm 906.3gms

Iris dark brown, bill dark olive (well worn), legs and feet

brown; gular skin red orange. Taken from nest. Stomach Saved.

[40638]

Hachman, C.D.

Catalog

Nov. 21

Motu Upua, Christmas Island

37. Pterodroma alba of Testes L 5x2 R 4x2 244.0 gm.

Iris brown, bill black, feet + legs flesh colored down to first joint of foot, then black to tip. [40672] Skeleton.

Stomach saved.

Nov. 22

Cook Island, Christmas Island

- 38. Procelsterna cerulea 7 1. ovum 15mm. 55.6gm.

 Iris brown, bill black, feet and legs dark grey with

 flesh-colored webbing. Stomach saved [40681]
- 39. Procelsterna cerulea & Ovary 8mm, 1. ovum 2 mm. 45.6gm.

 This brown, bill black, feet and legs dark grey with pinh
 webbing. Stomach saved. [40685]

November 23

40. Heteroscelus incomum & ovary 7mm. 139.7 gm. bill dark olive, legs and feet dull yellow, Stomach Saved. [40675]

Hackman, C.D.

Insect Catalog

October 5

19007 Wilder Shoal

I-280 Ectoparasites from underwing coverts and breast feathers of <u>Pluvialis</u> dominica captured at sea. 6 specimens.

October 7

I-281 Ectoparasite from Arenaria intrepes

Captured at sea near Wilder Shoal. I specimen

from upper wing coverts.

October 14 Baker Island

I-282 Ectoparasites from nestling Anons

stolidus. Nestling was taken from a small

1slet in the lagoon.

October 15

I-283 Ticks with eggs. Found under a small

piece of coral rubble at a roosting spot of

Anous stolidus near the lagoon nesting colony.

October 14

I-284 Berliz1 sample of rubble from under old logs and boards.

I-285 Same as I-284

I-286 ""

I-287 ""

Oct. 15 I-288 Berlizi sample dirt + corol rubble from roost of annu statutus

I-289 "

McKem A. I-290 "

Oct. 21 I-291 Ticks from bander in a colony of Sterns

Hackeman, C.D.

Insect Catalog

October 22

Gardner Island, Pacific Ocean

I-292 Grasshopper sp. from coral rubble in village. 3 specimens. Very abundant.

I-293 Spider sp. from building in village

I-294 Ant sp. from coral rubble in village

I-295 Insect sp. - Sweep netting over Boer-hoavia and Sandburn grass. 20+ Specimens.

I-296 Ant sp. - from coral rubble in village. - 1 specimen.

I-297 Mealy bug Sp. - from Boerhaavia - 9 specimens.

I-298 Insect sp. - 2 specimens - one on ground and one from the back of a hand where it was biting.

I-299 Spider sp. - from Boerhaavia - 1 specimen

I-300 Mite Sp- from ground near Boerhaavis - 2 specimens

I-301 Moth sp - from Boerhaavia - 2 specimens.

I-302 Insect sp. from Boerhaavia - 2 specimens

I-303 Aphid sp. (and ant sp. attendents) from Scaevola.

I-304 Scale sp. fand ant sp. attendents) from

I-305 Red mites from Sida fallax.

I.306 Ant sp. - from coral rubble on lagoon side of Island.

I-307 Insect sp- from Sida falla with sweepnet 2 spec.

I-308 Ant sp. - from Sida fallax with sweep net.

I-309 Caterpillar - from Sida fallax - 1 specimen.

I-310 Insect sp - from Sida fallag - 1 specimen

I-311 Plant louse (bright red and black) from Sida fallar - 3 specimens

I-312 hadybird beetle (?) from Scaevola - #specimens

I-313 Fly sp- from Scaevola - 1 specimen.

I-314 Insect sp-from Sida fallax - 2 specimens

I-315 Ectoparasites from breast and head of Erolia

acuminata

Hackman, C.D.

Insect Catalog

October 22

Gardner Island, Parific Ocean

I-316 Insect sp-collected at night attracted to the bright navigation lights. 3 specimens

I-317 Fly sp-attracted to navigation lights at night-about 15 specimens.

I-318 Dermested Sp. (?) - from coral rubble on floor of abandoned hut.

I-319 Cricket sp- from coral rubble at night. 2 specimens.

I-320 Spider sp. - from coral rubble in abandoned hut. I spec.

I-321 Lacewing Fly (?) from Scaevola and Sida-3 specimens.

I-322 Cricket'sp-from coral rubble and rubbish-1 specimen

I-323 Reach Sp. - at night on State Messerschmidtia.

I-324 The cricket sp. - 2 specimens from Scaevola at night.
hight green when collected-fading to yellow in alcohol

I-325 Silverfish sp- 4 specimens collected at night under coral rubble and rubbish.

I-326 Roach sp. - at night from Scaevola. - 1 spec.

I-327 Ant sp. 4 specimens from ground under Boerhaavia.

I-328 Spider Sp. - From Cocount trunks at night. Larger of the two specimens had the egg sack.

I-329 Roach spp. - 2 specimens from Scaevola at night.

I-330 Scorpion Sp. - 1 specimen at night under rubbish.

October 23 Scorpion sp - 1 specimen at night under coconnt palm debris.

I-332 Beetle Sp - 1 specimen from Messerschmidtia.

II.333 Roach sp. - 1 specimen of from conal rubble and leaf debris.

I-334 Roach Sp. 2 specimens from beneath rubbish

I-335 Spider Sp- 1 specimon from Scaevola.

I-336 Bee sq. - 2 specimens from Scaevola blossoms.

I-337 heaf miner sp. - 2 specimens dug out of the underside of Scaevola leaves.

Hackman, C. D.

Insect Catalog

October 23

Gardner Island, Pacific Ocean

I-338 Caterpillan sp-1 specimen from Sida fallar.

I-339 Insect sp-1 specimen from Spiden web.

I-340 Wasp sp. - 1 specimen from Scaevola.

I-341 Ectoparasites from Arenania intrepes from breast and from primaries.

October 18 McKean Island, Pacific Ocean

I-342 Hippoboscid sp. - from Fregata ariel.

October 21

I-343 Berlese sample from nest of Sula sula

I-344 Berlese sample from nest of Sula sula

I-345 Berlese sample from nest of Fregata minor

I-346 Berlese sample from nest of Fregata minor

I-347 Berlese sample from nest of Anous stolidus

I-348 Berlese sample from nest of Anous stolidus

October 23 Gardner Island, Pacific Ocean

I-349 Butterfly species - 2 specimens from Sida fallax. I-350 Butterfly species - 1 specimen - sweep net. I-351 Moth sp. - 1 specimen from Scaevola. Hackman, C.D.

Insect Catalog

October 22

McKean Island, Pacific Ocean

I · 352 Berlese Sample I - 353 · Berlese Sample I - 354 Berlese Sample

October 24

Sydney Island, Parific Ocean

I-355 Nasp sp. - from eaves of hut - 3 specimens 1

I-356 Scorpion sp. - I specimen from coral rubble on the
floor of abandoned hut - common

I-357 Ant. sp. - from Scaevola leaves and stems. Abundant

I-358 Nasp sp. - from Scaevola blossoms - 2 specimens: Uncommon

I-359 Bee sp. - from Scaevola blossoms - uncommon

I-360 Fly sp. - from mudhole on edge of lagoon. This species customarily walks on water surface - common 2 specimens

I-361 Fly sp. (Gnat) - on Sesurium on edge of lagoon - 1 specimen -.

I-362 Isopod sp. - under coconut husks on damp ground around mudhole on edge of lagoon - 4 specimens - common.

I-363 Insect sp. - (black + minute) from coconut hushs - uncommon

I-364 Sand flea sp. - from under coconut hushs on damp grand around edge of lagoon - 2 specimons

I-365 Beeltle sp. - (Small, black) from under coconut husks on damp ground on lagoon, edge. - 2 specimens - common.

I-366 Annelid sp. - from damp ground under coconut husks - 1 specimen.

I-367 Isopod sp. - Stom under coconut husks and ty ground- small and fuzzy - 7 specimens - common

I-368 Spider Sp. - from coconut husk on day ground -1 specimen

I-369 Insect sp- (small mite-sized, whitish) on coconut husk on dry ground. - 1 specimen - uncommon Hackman, C.D.

Insect Catalog

October 24

Sydney Island, Pacific Ocean

I-370 Mite Sp. - (Red) - from coconut hush on dry.

ground - 1 specimen, uncommon

I-371 Insect sp. - on inside of coconut hush on dry

ground - 1 specimen - uncommon

I-372 Insect sp. on coconut hush on dry ground - 3 specimens

uncommon

I-373 Spider Sp. - from coconut husk on dry ground -1 specimen

I-374 Termite sp- from Small stumps - 6 specimens, uncommon

I-375 Roach Sp - From Small stump - 1 Specimen

I-376 hadybird Beette - 2 specimens from Scaevola. Fairly common

I-377 Scale sp. - (with ant attendants) from upperside of Scaevola leaves. - Abundant

I-378 Insect sp. - 2 specimens from sweep netting of Boerhaavia. & Uncommon.

I-379 Aphid sp. - (purplish) from Tribulus blossom -lot specimens.

found only on Tribulus which isn't blooming on a wide.

scale at present.

I-380 Exoskeleton of insect sp. - from sneep netting of Boerhaavia.

I-382 Insect sp. - 2 specimens from sweep netting Boerhaavia.

I-383 Insect sp. - 3 specimens from sweepnetting of Boerhaavia.

Fairly common.

I-384 Fly sp. - 1 specimen with sweep net. Fairly common

I-385 Grasshopper sp. - 1 specimen from ground in sparse vegetation.

I-386 Grasshopper sp. 1 Specimon with sweep net.

I-387 Cricket sp. - 1 Specimen from Scaevola - Common at night.

I-388 Aphid sp. - (with ant attendents) (light green) from axils of leaves and blossoms of Sida.

Hackman, C. B.

Insect catalog

October 24

Sydney Island, Pacific Ocean

I-389 Insect sp- (small, whitish) from leaf of Mininda -

I-390 Moth sp- 1 specimen from Boerhaaria-sweep netting - uncommon

I-391 Insect sp. - 3 specimens from Boerhaavia - sweep netting - un common

I-392 Scorpion sp. - 2 specimens from abandoned huts-

I-393 Spider sp- 1 specimen from abandoned hut-common I-394 Caterpillar - 1 specimen from Messerschmidtia.

I-395 Roach Spi- 1 specimen from Scaevola - at night-common

I-396 Roach 5p- 1 specimen from Scaevola -at might-common

I-397 Koach sp- 4 specimens from Scaevola from SE end of Island - at night - common

I-398 Isopod sp. - 1 specimen from under roch - uncommon

I-399 Fly sp. - 2 specimens attracted to navigation lights at night-fairly common

I-400. Spider sp. 1 specimen (maroon) under rock on Sondy beach.

October 25.

Sydney Island, Pacific Ocean

I-401. Cricket sp. - 1 specimen from rubbish on floor of abandoned hut.

I-402 Ladybird Beetle - 1 Specimen from Scaevola

I-403 hadybird Beeltle - 1 specimen from Scaevola

I-404 Wasp sp. - 1 Specimen from Scaevela. Uncommon

Hackman. C.D.

Insect Catalog

October 25

Sydney Island, Pacific Ocean

I-405 Fly Sp. - 1 specimen from <u>Sesurium</u> - common

I-406 Silverfish sp. - 1 specimen from under rubbish-common

I-407 Dragonfly sp. - 1 specimen from around small potholes

on edge of lagoon. fairly common.

October 23 Gardner Island, Pacific Ocean

I-408 Berlese sample - leaf debris from base of tree with Lesser Frigate colony

I-409 Berlese sample - leaf debris from base of tree with Lesser Frigate colony

I-410 Berlese sample - leaf debris from base of tree with Lesser Frigate colony

October 25 Sydney Island, Pacific Ocean

I-411 Berlese Sample-from Island in lagoon - from nest of Airous stolidus
I-412 Berlese Sample-from Island in lagoon-from nest of Anous stolidus
I-413 Berlese Sample-from Island in lagoon-from nest of Anous stolidus

October 29 Tutula Island, American Samoa

I-414 Ectoparasites from Fruit bat

I-415 Ectoparasites from Fruit bat

I-416 Ectoparasites from Fruit bat

I-417 Ectoparasites from Fruit bat

I-417 Ectoparasites from Fruit bat

October 31

I-418 Ectoparasites from Fruit but

I-419 Ectoparasites from Fruit but

I-420 Ectoparasites from Fruit but

I-421 Ectoparasites from Fruit but

Hackman, C.D.

Insect Catalog

November 2

At Sea, U.S.S. Lipan

I-422 Pelagic water strider sp. I specimen picked up from starboard side of ship at 1430. Ship had been taking some mater over the sides and thru the scuppers. Insect was observed hopping around on the dry dech by a crewman and brought to our attention. It was a light, fluorescent blue before immersion in alcohol.

November 4

Phoenix Island, Pacific Ocean

I-423 Berlese sample from nest of Puffinus nativitatus

I-424 Berlese sample from nest of Fregata minor.

I-425 Berlese sample from nest of Sula sula

November 6 Phoenix Island, Pacific Ocean

I- 426 Berlese Sample from roosting area of Sterna Inscata

I-427 Berlese sample from nest of Fregata ariel.

I-428 Mallophaga species from Sterna fuscata-breast and throat

I- 429 Mallophaga species from Sterna Junata-breast and throat

I-430 Tich species from Sterna Fuscata.

I - 431 Appoboscid species from Anous stolidus.

I-432 Ectoparasite from throat feathers of Puffinus nativitatus.

November 8 Birnie Island, Pacific Ocean

I-433 Ectoparasite species from Anous minutus
I-434 Hippoboscid species from Anous stolidus.

Insect catalog Hackman, C.D. Endonbury Island Movemby 10 I-435 Mite sp. (Red) from nestling Sula sula.
Attached to skin on back of bird. I-436 Berlese Sample-nest of Sula dactylatra I- 437 Berlese Sample-nest of Fregata minor I-438 Berlese sample-nest of Sula leucogaster Jarus Island November 19 I-439 Berlese Sample - nest of Fregata ariel. I - 440 Berlese Sample - of Lepturus and debris from nesting colony of Fregata ariel I-441 Berlese sample-of debris from nest of Fregata ariel Jarvis Island November 16 I-442 Berlese Sample - nest of Sula sula. I - 443 Berlese Sample - rest of Phaethon rubricanda. I - 444 Berlese sample - nest of Fregata ariel. Palmyra Island November 27 mallophaga I-445 Ectoparasite from Mareca sp. This Proposition

came off of one of three widgeons that were collected

together (2-Mareca americana + 1 Mareca penelope).

All were carried together in a mussette bag.

Janio - left hotel 0750 for airport Jan 10 - take off from Pulles - 1020 E.S.T. Jan 10-arrive Honolula 4:30 pm H.S.T. Jan 25 - Depart Pearl Harbon - 0900 Feb. 1 - Arrive Howland Is. - 0930 teb. 3- Deport Howland Is. - 0720 Feb. 3 - Arrive Baker - 1200 Feb. 5 - Depart Baker - 0800 Feb. 6 - Arrive McKean - 0900 teb. 8- Separt McKean - 0800 Feb. 9 - Arrive Hull - 0700 Feb. 9 Depart Hull - 1800 Feb. 10 Arrive Birnie - 0800 Feb. 12 Depart Birnie - 0700 Feb. 12 Arrive Enderbury - 1100 Feb. 17 Depart Enderdung -0800 Feb. 17 Arrive Canton - 1000 Feb. 18 Depart Canton- 0800 Feb. 21 Arrive Pago Pago - 0900 Feb. 25 Depart Pago Pago - 0900 Feb. 26 Arrive Fakaofo - 0830 Feb. 28 Depart Fakaofo-0900 Feb. 28 Arrive Nukunonu - 1/30 March 2 Depart Mukunonu-2330 March 3 Arrive Atafu - 1030 March 4 Depart Atafu - 1330

March 7 Arrive Janvis - 1700 T. March II Depart Jarvis - 1030 March 12 Arrive Christmas - 0800 March 15 Depart Christmas - 0945 March 16 Arrive Polmyra - 1400 March 22 Arrive Pearl Harbor 1400 March 22 Arrive Pearl Harbor 1400

Hackman, C.D. Soural D.C - Herolulu Jan. 10 Left hotel at 0750 and took taxi to andine the terminal. Left terminal at 0845 and arrived at Hulles around 0940 - a little late because of the anowstorm. Plane took off at 1020. arrived in L.A. at 12 noon pacific time and departed there at 1:30 p.m on Pan Am flight 819. This plane took an unusually long take off run, using up all but the last 1000 feet of runway before getting off the ground. On the way into the Honolula airport the plane came dangerously close to undershooting the running by about 400 yarda. When about 200 feet off the. ground it was still quite a distance from the end of The running and dropping fast. The pilot applied. full power and landed on the very edge of the "Nunivay with the engines sucaning. going so fast when it hit the runway it took

almost the entire strip to get stopped. Max to almost the entire of talked (enssed) it onto the runnay when we realized he was going to be short. We streat the last couple of hundred feet hepre he finished twoched down safely.

We immediately rested a car, a 65 Falcon with only 2070 miles on the speedonete, and healed for the hotel and then healed out to say hi and coordinate things.

At 11 p.m. I went out to the airport and met

Mormon Heyrford. Finally sached out at 12:45 am.

(7:30 am E. S.T. on Jan. 1). A long day.

189-10

8

Journal Hackman, C.P. Honolulu January 11 Max + clate a casual treatfant and then) healed for Pearl Harbor for gate passes and the a visit to the Hitchiti. I goofed terribly in That I forgat my Pearl Harbor pass + SI ID card. so we had to return to the hatel and then drine back and to Pearl Harbor. Firely got the passen and entered the base at 10 am. Spent about I have driving around showing May where everything was. We then drove out to Pend City to check on the arrival of the various shipments. Everything shipped to date was on hand. We nosted around for about I how and then left to eat lunch. at 1 p.m we went on board the U.S.S. Hitchiti to introduce ourselves and look around a bit. The chip looks good. The afterhald has storage room to space more than the ships on our last three Trys combined. After spending about I have looking around and talking with the XO we healed back toward the hotel. Stopped at alla Moana Shopping anti for some field clothing + other items and then returned To the Lotel mia the Hazel Broken Museum. at 11 p.m. Max wake me up and we headed out to the amport to puch Binion up: His place Cruned 15 minutes ahead of the scheduled time of 1125 Int we caught him before he left in a taxi. Sached out at 12 30 again.

Hackman C.P. Januar January 12 Up at 7 a.m and had breakfast with the gang. Took Binion and Horman out to Hickan AFB () so they could consilete arrangements for their flight to Land Island Tomorrow morning. This took until 1030. We then drove to the Pan Olm. airline freight Terminal to mail a trush of bird skins back to D.C. which took another hom. Keturned to the hotel for lunch and then headed out to Cly is to try and locate about 15,000 #3 bards Binion wanted to take to Sand Island but couldn't find all of them. Returned to the hotel and priched May up and the headed for the alla Modern shapping center to pick up bone more items for Birion and for the ATF. Returned to the hotef around 3:15 and called it a day; Geoterday on the way back to the hotel from the shopping center the care of the brakes started acting funny with the pedal going all the way to the floor. I took the can one to Mational and they said I'd have to oways caro because the brake line had broken. So elgot anothe '65 Falcon, this one with 2926 miles on the speedantly. Binion and Norman left the hotel at 5 am for their flight up to Sand Saland. No more distractions or chose to do for others for a few days so we can derate all our efforts toward ATF preparations Went out to the ship this morning to whech

Hackwan, C.D. Januar January 13 on a few things with the XO. Ho one was on the ships so we turned around and observe back to town, to I do some shopping. Spent the rest of the day company prices on things like hot plates, travel tions and fluorescent lights. Finally lought a transfirm at the G.E. M. store. January 14 Called up the ships to whech and see if the No would be on board. Then drove out and prined up the outboard motors and took then to the ship. We were both surprised to find that the Captain I was on board and had been for several weeks. because we had been told he was on leave on the west coost. He seemed kind of preened that me had gone to the XO instead of their until we Told that we had been told he was away on leave. In our discussion he made arrangements about the delivery of grandine, loading of geor, rubber rafts, ette. We found they want a work order to install the representer in the afterhold. In Pearl Harba work orders are required for everytheir except taking a leah on company time and I spect they 'el change that too. After spending the morning on the ship we wandered back into town and did some more casual Edingsing before heading back to the hotel to finish out the day working on packing lists.

Jonnal Hockoron, C.D. Jan. 14 Jesterday, during a brief stopour at the Bishop Museum, Max was told by one of the people There that 3 people from the museum's intomology department were going with moran the coming trip; It seems Preventire Medicine Unit #6 has been busily pulling strings behind the scenes again. a little late in the day Max called the museum and found that only one person, a fellow he knows, is scheduled to go. I was under the impression that This sort of thing had been straightered out and we wouldn't be saddled with these people anymore. If they had tried to foist three people off that would have done it! One I can put up with three of them would have been entirely too much to stard. One person doesn't ald a great deal of oftra gear. Three people would have incresitated at least 1 & tra boat lood on and off of each island not to mention & tra food problems. at anyrate, I don't intend to spend one senny of project funds for gear for these pe she for that. person, whichever it turns out to be unless ordered to do so. As I understand it the people from the Bishop Museum who went on the Marshall's trip still have not paid their expenses for food. They me Do tight they opnesh and are quick to take advantage of energthing they can no long so it doesn. I cost them anything. We for as I'm concerned, any gear they don't bring along and find they need they'll just have

Hachman, C.D. Journal. Honolulu Jan. 15 This morning Max and I headed for head City

bright and larly. We spent the entire morning and part of the afternoon rooting around in the warehouse packing for the ATH and attempting to sort out athe gear We pulled out 8 sleeping bags that were getting mildered, a max-min themometer, a sling psychrometer, 8 headlights and a very Expensione altimeter and took then out to the Cly a where they can be stored safely. Such gear shouldn't be left at faul City where it can 't be stored either properly or day By 2 p, m we had done as much damage as we could do for one day - having gone through all of the Marshalls ged and then parked 5 Torundes for the ATF trip. We are now in a position to complete the packing in a day or so and then start hanling gear onto the ship. as soon as Merrill gets here and we can rent a sichup truck we'll start danling gear into the portable -lat which is now on the ship. The weather here is still uninspining. It they rained energely since on arrivel! Since very little can he done on weekends we now have two days in which to rest up and plan our activities for next week. The fact that Dr. Ely won tretum until Nedresday afternoon dietresses me a little. There

Journal. Hackman, C.D. Horshuler are certain things can t do very well without Sir assistance. He didn. t leave any word about having the rubber rafts checked out. Since we are taking two new ones there is I much point in staning there checked atte, then a perfunctory one by the ship's crew. As for as I'm concerned, the previous, "checks" by the Pearl Harbon Boat ford have been little more than a waste of good money. January 16 Horolula Jan Cly called This morning after Max had left to go to the Bishop Musleum to which On the entomologist who is supposed to go with us. She worted us to pick up a freeze chart Man returned around moon. Around 1 p.m. I took the can and went out to the amport to get the freeze. It just barely fit into the can. I took the hid off and then huffed and puffed until it finally popped through the door. Since the freeze way so large I took it directly, out to the Cly's where I again had quite a struggle getting it out of the con. It went in much easier Not much to do the rest of the afternoon meent of lists and do some planning.

Most much to do the rest of the afternoon meent to see Anne

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Most of the drening we went to see Anne

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Most much to do the rest meent

Most much to Boveroft pout her way through the morie is The Pemphin Cate. I got a headache by

Journal Hackeren C.D. sitting there all tensed up wanting for the punjetin to appear - it nove did which was a terrible disappointment for us both. a trely crummy flich in spite of all the rares it is received. Horolulu Sacreed out until 10 this morning just for heises leven though I woke up (one of many times) at 6. Nothing We wondered down to the zoo and hilled a couple of home and then went down to the beach. to do Today. nothing reiting there either and did laurdry the rest of the afternoon. The Picked Merrill up at 11:15 pm. Jeen-18 Not up at 7:30 am. Took Merrill to the airport where he rented a 12 ton truck with a hydrolic lift. We then went to fear City and looded on 3 rafts and the freezer which Merrill and Max took to the Hitchiti. I drove on into town to pick up 50 lbs of dry ice for the hind shipment that has to be made soon. Was met in town by the truck and we all went out to Cly's to pash the shipment. Ne returned to town + priched up the can and followed Merrill to the amport. After shipping the frager opecimen we drove out to the Hitchite to confe with the xo for

a few minutes in order to quiet his fears and early him ever increasing panice when out to Of when was fromtically Lelling Fearl Harbor Trying to find out when the 39 hours coming in. She was getting two sets of answers. The unofficial word was that the 39 would be in late in the eneming. at the same time, the official word, straight from the ahip control center, was that it went I f he in until the 20th. Finally, at 5 she called no and said she had finally bearned that the ships would be in to the feart City pear VICTOR-2 at 7:15. This pier was a good 19 miles from the Lotel / right beside on warehouse 698) The ship finally tried up at 8:35 but no one could get off of it until 9:15 or no because come one neglected to provide a gang plant. We just fast around and the ideal on thumbs while they improvised a gang plant out of 3 old boards and a net. Stunning moral We finally got back to the hotel at 10:30 p.m. Since the started out at 6:30 p.m. he did much bette then we had expected. Marmelly, when you get There at a time like 7:15 the ship won't dock Lintif 11:15 or so.

Sounal 2 forfiner, C.D. Up at 8 am to eat breakfast and los faround until 9:30 when the Cly come in for a conference to see how for he had progressed in our preparations for the trip. Max and I confined with thin for about 3 hours during which we obscussed a number of present and Made two tryso out to alla Moona Shopping Center. One an emergency trip to get some gun bling and atte gear so Dayle Husted could fix up the old double-banelled 16 gange. Spent the letter part of the morning out at Pearl City grubbing around with more packing and arranging. Found some more gear that should be kept out at Chy 's so we took it there and then spent the better part of the afternoon discussing ATF smallers. Jan 21. Horoluly Out to Pearl City bright and landy. Then to Pearl Harbor to see the Hitchiti, then to Prin 39 to see Dr. Ely-couldn't find him so returned to
the Hitchitis to load gear on board. Spent the better part of the day on this tash. Stopped at Saeps for dry sice on the way have.

1

Harkman, C.D. Stopped at Harrarian Bakery Supply Co. for 100 pounds of Counneal on the way to the ship. Then spent the vert of the day dragging glan around and distributing it in the lab and afterhold. Out to the ship bright and early for find preparations. Met D. Ely around 11 an and followed him over to It. Smith o warehouse Where we picked up the radios. after deliving the radios to the ship Max and I returned to the hotel to roud up Will Merrill and Ralph Kirkpatrick and the waited for D. Ely. Shortly afternoon we all piled into the Folcon and drove across the island to Kaneoke Bay where the Univ. of Harrain has it marine lab. There we were briefed on a special job we have to do this tryo. This took the rest of the day. Jan. 24. Honolulu Spent this day sunning all over doing a million and one last minute things. Out to the aujourt to pick up Woodward in the early energ - took him directly to the ship. Hube finally showed up on the last flight of the eneming the was delayed and almost stranded by had weather. Everyone was on board the chip and sacked out by I a.m. ready for the morning departure. This was by for the consist trip I've had to prepare for this was principled due to the ship is helpful attitude for which to d'im duly thankful. Should be a good trig. Jan. 25-31 At Sea - U.S.S. Hitchiti

Cleared the lost channel bony at the mouth

of Pearl Harbor around 1030. Steamed attacking Sw

for the 6 day period. Sear relatively calm throughout

the trip south. No noteable occurrence.

Cach day just like the one proceeding it - dull

and boning. Spend part of each day or bird watcher,

post on preliminary paper work and planning and part

on instructing the various personnel in the parking

of their assigned boxes of que.

The officers and even of this ship seem very

conserved and are interested in the work. Unlike all

the officers and even of this ship seem very congenial and are interested in the work. Unlike all previous ships no one seems distributed by the fact that he is making a two month "bird cruise". No - cloubt this view will have been somewhat altered before

the trip is over.

Hackman. C.D. Journal Howland Island February 1 Dighted the island visually around 0800 and landed in two boat loads between 6930 - 1015. The fact that the tide was at its lowest point, thus producing very small works, kept us from being wyced out completely because our bost crew through no fault of its own is completely without suf experience. This will no doubt present some problems possibly serious ones, when we reach such rough landings as those on Aull, McKeam & Janus. Setting up the camp took longer than usual because we're using brond new tents. All the royces and attachments had to be laid out and adjusted. Finally at 11 am we set out for a complete nest owney of the island. Blue - faced Bookies are at their low point in the breeding cycle. Ho hinds on eggs were encountered until we reached the morthern and of the island - than only a few were found. Heatings and immatures are scattered here and there along the beach creat, with a few in the interior, around the entire island. No large day Loncentrations of adulto are on the island at the present time although on the northern end and along the wordwood wink stock country ways, which will probably form the nucleus for this evenings this, were along the southern and of the island there are still about 1500 mestling Lease Frigates - most nearly fledged. These constitute the remnants of the large colony (the eastern end) that was present during the

October mint. Most of the birds in this section had either

newly hatched chicks or were on eggs in October

Frankiran. C. D. In the air one the colony, at the present hime, are between 8-10,000 immative and adult desser frighter. The big surprise this trip is the Sooty Term paymation. On the southeastern shore, in the general nicinity of colonies on previous visito, is a two the stage colony. On the northern edge of this colony are several scattered groups with nearly fledged young these are the remnants of the colony that was present during the October 1964 misit. Along the edge of the nearly fledge groups in a new colony with buds on lygs U new Sorty Ten wolong is located along the beach erest on the Seewad (west) shore running from Itasca town and to a point 200 south of the Unelia Ochart Light house. The colony extends in the from the edge of the Liptimis on the heach inland for about 250 yards. A few Gray-barbed Ten nests were found along the edges of this colony in the spansely me tated portions of the heart. This is the first time letter species has rested at this location in our experience. Approximately 10,000 Sooty Terrs and 60 Aug - bashed Tems are in the lighthouse colony. Brown Booky nests were, as usual, found almost exclusively on the beach erest on the southwest end of the island. The two exceptions were rests found on the beach crest on the southeast shore. Brown Booky next botalo: 17 nexts with eggs, 16 rests with young 6 of which were large enough to band.) This strikes me so being quite an increase for this offeries one previous trys.

Harhman. C.D. John Forward Island February 1 Blue - fored Booky totals: I most with I say 8 mests with 2 eggs 7 nests with small chiche 57 nexts with large nextlings 19 Immature On the beach west on the tenthrand side Paul Wordward found a nestling Common Moday Tem (anous stolidus) and saw fire or six adults in the micinity. This is the first resting record for this species in our expensive. Octobe 64 stay. Booky colony in the dead Cordia trees in the central depression of the island gives the following neating totals = Freater Frigate: 63 binds (both sexes incubating) on I egg, 2 newly hatched chicks & 2 large restlings. There were about 15 immatures sitting around and these were counted on our last visit or several that were charled had bonds. One Greater Frigute egg that was cracked when the sel hind left the next was fresh with no signs of blood ressels forming - barely incided. Others, checked by booking at a certain angle in relation to the sun, were pinkish indicating that they too were fresh. Shere were very few Red- footed Bookies in the nesting colony. Only 7 nests with eggs were found. Ino nesto containing regetation (fresh tribulus) will probably

contain eggs within the next several days. There were

James Hackman, C.D. Howland Island February 1 fine simmature Red-foots sitting around in the colony. Two, still a little hesitant about leaving the vicinity) of their rests, were easily captured and banded. four incubating adults were also tapitured and their band numbers recorded. Late in the evening the Sorty Ten colony near the andia Eschart light house began to & pard inland as more and more brido come into the island. These hinds are gathering in small, cricidas cleanings in the Tribuluo. a few eggs are already being laid in this sertion of the colony which at present I worke this I small isolated colonie Toty Damelia Conhart light Coast Luand markers Beach Max, Dich & I began blood sampling of Sory Tems at dush. The racutainers distrot work very well on the Sooty Terns but provided spellont results from the langer birds such as Blue-faced Boovies and Jugates. a total of 80 Sooty Teur with sampled. The final 20 samples come

Hoshwa. C.D. Howland Island February 1 from Blue-faced Boolies and Frante Frigates. Larry + Ralph barded Sooty Terra and Paul worked on Blue-faced Bookies while we blood sampled. I joined them around 10 p.m and helped then finish up their strings. at 12 midnight Larry quit with the terns and took a swing around the shoreline for some shorehind banding. Mesting figures for Red-footed Book : I rests with fresh regetation will probably have eggs within a few days 5 large nestlings (2 bonder) Mesting figures for Anester Frigatehuid: 2 binds with small chiche 2 huds with large nestings

Honfunda. (..) min Hawland Salat February 2 of the island for a shorelind count.

Shorelind count: Golden Plover 76 Ruddy Turnstone 79 Wondering Tattler 16 Bristle-Thighed Carlew-10 Merill left at 0800 to centrifuge the blood samples taken last night. again the ship in ever musle a very poor landing. around 0900, on the ebbing tile, Max and dany assimiled their glan and went at to look for Zoanthida. Kalph and I knot plantie striemen for whent I how and then ment down to the Freate, Frightelind colony to Try them out The binds did not hold very well and we were only able to capture, bond and wing tag 10 hinds in the course of 12 hours. Not wanting to keep the bridg off of their eggs too long to the direct sunlight) we decided enough was enough and returned to camp. The color combination for this island was decided upon as Blue-Blue. This color doesn't show mys well on buide in flight Uround 2 p.m. Merrill carre back in with 5 man from the olip who planned to change the batteries in the manigation lights and the practice landings Franch the surf. They sure could use the practice because they get creamed on each of six landing attempts in only moderate sunf. The motor

Journal Mariania, C.P. Howland Island February 2 The negatation on Harland is healthy looking at present-fairly had and green which would seem To indicate recent rainfull has been more than adequate. The Tribules is in full bloom as is the Bolishamia. All othe plant species appear to he grand well. Shis afternoon we caught 50 Sooty Terro and checked them for wing moult. all hinds were netted at the lighthouse tern colony Late in the afternoon Max sat on top of the lighthouse to watch for incoming Blue-faced Boolies. So few came into the island and formed such small chiho we decided to devate the total party. effort to Sooty Ten barding. Each person did about 1500 binho. That is, lach person with the Inception of Triger Huber. When I wandered back into camp of around 1245 am Huber was still throshing in the lighthouse colony. As I retired for the night he was heading for the windward shore colony with an enormous fist full of barda. His evenings' total - 3,500. The ornall total for the entire crew was 8,800 Soots Tens. In addition to This were 38 returns on hinds that were bended in July 1964. The fest return of the evening, however, was an old Biological Survey band that Huber found on one of his Sooty Tews: 38-1312056. a red spray paint was used on This island,

Hackeren, C.D. Januar Herland Alend February 2 took quite a pounding during their numerous I landing and toke off attempts I z preis were broken. Fortunety, neither of the two pieces were and the plants. In going out to the ship around 4 pm., they picked the whong time and hit the largest work in the sunf typele and really got smeared. The bost took in so much water they were wroble to gradelle it though the last of the breakers. In de just the returned to shore, dunged the water ant of the raft and dried the motor which had gotten durked. Ofte, me forling around they finally managed to go out through the suf without incident. On the first day here one fellow was knowled out of the boat, when it broasked in the our and harded on a sea weekin getting spires in his hand and foot. Fortuntely, he has t had any after affects so yet. The Hitchiti comes in close to the reef the har any ship in our experience. This afternoon it hung on the edge of the sunf line with the bow no more Then 300 feet from the first breaker. At this point it is in so close it is possible to recognize people on The dech. This afternoon the boat ren though the sunf

and then ran around the stern of the Hitchiti and

wis mosed to the ship in about 3 minutes flat.

Harlmon, C.O. February 1+2 Howland Island Summary Blue-faced Booky - Small numbers present - 800 to 1000. Only 3 or 4 small clubs observed along the Windward shore. No clubs formed in the Interior. Breeding status - Inactive. Red - footed Booky - Present in very small numbers. Normal daytime population only 14 pair. Roosting population 40-50. Thests with eggs. Brown Brooky - 33 nests. Roosting population - 60 Red-tailed Tropicbird - Uncommon at present. Only 2 nests with small young. Greater Frigate - 80 pair in Cordia grove - The majority (63) on fresh eggs. . 255er Frigate - 1500 nestlings still on ground but almost fledged - remnants of the last breeding cycle. Between 8-10,000 adults and immatures utilizing the Island at present. Sooty Tern - 2 colonies actively nesting. The older colony, on the windward side contains about 3000 nearly fledged young and about 25,000 birds on heavily incubated eggs. The newer colony, being expanded by new layings, at present, consists of 10-15,000. Total population -75,000+ Gray-backed Tern - 60+ nests along leeward. Shore

Common Noddy - #2 one 3/4 grown nestling, 6 adults.

Bristle-th. Curlen - 10

Wandaning Tattler - 16

Ruddy Turnstone - 79

Golden Ploser - 76

Hackerson, C.D. Howland Island Jummary February 1+2 I Sooty Terms and I Blue-faced Booky were collected as the result of blood sampling. a total of 11259 brids of 10 aperies were barded. 236 returns of 5 species. Frecoveries of bords from 4 species (1 a foreign retrap). Coelenterates
Collected along the west and south shores by Thompson and Huber.
Two (flounds) were collected along the south shore by there Thompson Blood campling: So Sosty Tem, 10 Blue-f. Book. 10 Sheets Fryste No other collections were made. Jone Return Recovery Hest,

Harris, C.D. Feb 1+2 about Substalt Heathing Jam. Und Return Recovery 49 13 54 40 7 179 2 Grown Born Red-f. Wish Sooly Ten 11866 Frey- G. Ten 36 Common Hoolds Great Friends Jesse Fright Wording Tattle Golden Plane CR-t. Tropichis 1 1/973 Total 12096

Hartman, C.D. Samuel Bancolland We departed from Howland with a minimum of difficulty, though 4-5 fort out, at 0720 with) to first boat load. The second boat load was delayed until 0815 because of tranble with the anthourd motors. arried off Bake at 1115 am and made the first landing at 1200. We were somewhat amaged to find Baker's sunf extremely rough. The boat consumin admitted he was afraid to start in so we circled around on the edge of the sunf line looking for a spot. Finally, he just changed in and got up on tops of. about 3 3-9 fost were and rade it in as it broke. He got a shade ahead of the wave, so that the () front of the raft hung down about 2-3 feet love the aten which would have could problems if we had dit a rock. Fortunately, every-Thing worked out perfectly and we really barrelled into the heach. It was the longest, fastest and hildest ride I've tre had through the sunf. after unloading the raft we looked around for some sort of channel and could find no sign of one so we just sent the raft back out through the wild stuff, just as they reached the last breaker on the surf line the motor stayered but they) probabled wirldly and got over the ware just as it broke passed them. The second lood made it to the beach with found in any landing after we had secontel around and find a channel of sorts that coursed the sunf, in that. section, to break softly and blose in to show.

Journal Hachman, E. T. Baker Saland February 3 The boat over dispersed one the island to pick up some sections of aluminum pipe and to set the manigation lights up on the ends of the island while we set up comp. When they returned at 2 pm the sunf was really bosoning in and there were no regular culm perison. The 10 of us then spent the next three hours trying to launch the raft. Everytime they'd just get started they'd run into an 8 or so foot wave just as it broke and would get smeared. Six attempts all ended the some way - with the raft full of water + powerless. Each time we'd dray the raft back to the beach, detach the motor + gas can and then dung the water out. an extremely strong underton made the operation has more difficult. Firstly, in desperation Merrill and I walked down to the south and to which send conditions there and found then aimset rideal. We then comined the raft, motor and gue about 800 yands across the island and must a successful launch et 6 p.m. I the I solid hours of heing pounded around by the surf while struggling with the reft we were all feeling slighty subject with manious assorting to of alianing and aching muscles. The out was so had we decided to gostpone blood campling until tomorrow in order to aliminate I full series of boat runs. The extremely had any conditions are heing caused by a change in wind direction. Mormally the wind is easterly throughout this area. at the present. time, however, the wind is running out of the NW at about 15-20 mph. This means that, unless the

Januar Havinan (.7. Baker Island February 3 wird shifts all of our normal randing areas will be wind swept and will have bad sunf conditions. This could prove to be especially hazardous or McKean Island with our inexperienced coxsorains because the landing is orto a roch shelf through an area littered with coral hards. The 74. Kean landing is a nasty one even lively ideal conditions and just thinking about trying it under bad sunf conditions occured all of us. So for we have been very lucky and haven't had any serious problems à injuries due to landings. If sunf conditions Continue as they have been someone is going to get creamed. The motors have abready taken a fearnowne pounding. The one used tostay was under the water about 9 times during our many launching attempts. The shift assemblages and linkagen here of alredy been broken on both motors and en vanious other cast parts have been broken off. In just the islands the motors have taken more of a besting than they received on the entire Oct - Nor trip. at the present rate, the motors won't survive the complete trips x. The entire shouling of Baker has changed diastically since our last nist. "Hornally, the water in deep" right up to the shoreline and only I wave is encountered in Serding. More the shore has been swept back by the wares so that rock shelves have been exposed on the beach. There is no sign of a channel along the entire length of the west shore.

Journal Hackman. (2.1). Bake Island after laureling the boat at 6 pm we applif into two parties and ran a guich island survey. There isn-t) very much on the island at present. After down most, of us sacked out and timber to our arms and period while only the ambitious went out to tackle the small blue. faced Booky club that is here getting 60 new hinds and February # Baker Island Max got mys early and made a shorehind count. Kalph began capsturing and stuffing mice. I did some banding records + took some notes on namena aspecta of the island and the rest portered around. Around. 1) 10 am Merrill walked around the island and mapped the charges in the beach and made a general survey. Woodward and Hube ate an early lunch and left to word Common Modely Terrs on the far side of the The souf is still very high and steady along, the west shore of the island. Heavy surfalso on north and sast shores. It might be worth noting that the Hitchit's radar has the morgenative since the 3 rd day out of Real Harbon. This makes it necessary to place the marigation lights about I mile apart. The ship is een has been taking come of this much to our great We Spent most of the day wordering around looking but there just ion t much to see on this island at the

Journal Hechiran, C.D. Baker Island The regetation on this island is in poor condition Compared to that on Hinkand. Only Bortulaca and Boerhaavia are green and healthy in appearance. Both Digitaria and Leptumo are mostly from with only a few green leaves. Such species as Minosa, Setaria, In Grodon, the stage and the for Sandburn grass are almost completely burned back. Host of the Sida has died back and only a few plants of this species are in Hoon and healthy in applanance. Tribulus, which in located in patches in the center toward the east side of the island looks very heathy and is in full bloom. The two hearts opicies: Trumpetta and spormed appear to be in fair condition. The James is blooming in some Last night ve had a new moon. Just this little slives cast enough light to make the shorebils yours and impossible to capture. On each succeeding might the moon will become brights and will set I from late, until, by the time we hit brokenburg, the One - faced Boolies will be as had as the diskens to capture. Simelier we always marage to fit a wight mean on the most populous Blue forest Booky islando This evening the moon act at 8:45 and we all west out to blood sample Blue-faced Bookies and to do what hills bording the is to do here. after bonding & Bampling we returned to camps and

Hacking C.D. Burral February 4 Bake Island socied out - 11:30 30 Blue - Josed Bookies were Most sampled, 13 handed and 42 were votures. The chil contained about 180 birds the majority of which had been handed and marked the night before. Most of these linds flushed quietly. February 5 Baker Island We got up at 6 and droke lamp ord began carrying the gen & mile across the island to the south shore where the sunf was heller. All gear was on the south beach by 7:15. The first, boat Load took off at 7:30 without much difficulty. The second bost got creamed as coming in and we had to dump all of the water out before it could be loaded. In going out we missed a ware on our count and, it seated up to about 9 feet and broke on us about 15 feet from shore. The raffreered up and came down on top of us upside down. For was floating all over the beach with people running around frontically graffing it. I graffed one ammunition box just so it sand but still didn't have time to show before the enderton pulled my feet out from under me first before another I fost were brake on top of me. The by was to heavy I could hardly more it since I was thought on to a water Cooles too. Each big wave that came in shoved me a few feet further up the beach until finally, after about fine of them, I was for erough up so that I could ching the artic cooler high and dry and then use

Hackman, C.D. Bake Iland both hands for the water filled box. Fortunately, no one was that in this episodeat least not seriously. I lost skin off of I knuckle, formed another and got a hig bruise and cut on my right fines. Everyone picked up a truine or two along with a few scratches here and there. The motor took the worst beating of all because it lost its core and was half filled with sand. needless to say it We loosled the boot buch up and then waited and watched the surf very carefully this time He passed up several short testins but finally found one during which we were able to partille The passed the sunf line and out of danger; In the meantine the ship laurched the other reft which come in and gave us a tour. Shortly after coming on board the ship began to intiation for the equator crossing. May riada. + planned on going through but made the inistake of going down to take pictures - he went through frist and got off long. Kalph went through this or fourth. This ship gove a very eday withation - nothing elaborate such as the Takelina or the Lipan on the second cruise.

Fil 3+4 Baker Island Summary

Blue-faced Booky - only 16 mests on the island (4 with 1 agg, 10 with 2 eggs). But I to immeture (all banded) were observed on the island. Two small clubs formed on the south shore of the island late in the evening with 150 and 50 hinds, respectively. I meetings were banded in addition to 690 others. Returns totaled 94.

Brown Booky - & bride rooting with the large Blue-fored

Booky club.

Sooty Tern - small flocks in ricinity of the island throughout

the stay. Hore on the island.

Etrey-backed Tern - 2 nests found inland mean old plane weeks.

12 bride seen on the ground along the courth shore were not

checked for nesting activity.

Common Modely - 377 nexts in lagoon (35 with menthing, 342 with egg)

35 menthings were bended, 2 bords were recovered.

Cotainste Soo + adults.

Leater Frightebrid - 9 immatures and females in mininty of the island throughout the stay. Home seen roosting

Bristle-thighed Coulin - 2 seen on Feb 3
Wanding Tattle - 10 on Feb 4

Ruddy T. mostone - 1/3 on Feb 4

Holden Plove - 7 on Feb. 4

Hackman. C.D. Journal Baker Island Summary Feb. 3+4 Coelenterate collections were attempted along the south shore but were unsuccessful. The heavy surfacioned most of the island precluded searching anywhere but along the south shore but the water here was full of sand and mailitity was poor. 3 Mice (mus muscules) were collected and put up as study skins. 30 Alord comples were taken from Blue-fored Boobies. No The collections were made Darding tolals: adult Subadult Mestling? Return | Recovery Common Hooly

Joursol Harliman, C.D. McKean Island Sighted the island around 8:45 and moved in close to take a look. Much to our relief, the) wind had shifted back to the last during the night and was blowing around 15-25 mph. The landing didn't look bad so we looded my the raft and changed in. as it truned out, the landing we were the most worried about was the essest one we've had this trip. There was hardly a rypple as we lame in. The island survey was completed by 1 p.m. Yeng fen nesting Shie-faced Brokies on this island Two. There are large numbers of Sorty Tems, Common Modely Ten and Anay backet Tens meeting at present. The large dense Frigate estory is still fairly intact but most of the huds are against capable of short flights. around 2 p.m Max, Larry + Dich worked out on the reef with face menhs and snowhele to find look for coelenterates. Robert + I worked are for 5 species for schopmantes. Paul barded Common Mosly mestlings, Hube worked Hray - backed Terro and Dich that and Max worked on Fainy Terrs. around 4:30 - 5:15 we had an Iterded nain shower that contained activities until after duch Mix + Dich took blood sample ætte durk. while the rest harded. It was slow going in the thick Side but the results were good. about 2,500 Looty Tens were burded and 97 returns were

Hackman. C.D. Journal Mc Kean Island The Sooty Terms, Steate + Lesse Frigates, Fairy Terne, Red-footed Boolies and Blue-food Brobier are all disgorging fresh against during the meddle part of the day when distributed distribed. These squid range in size from I'z inches to- 6 inches. Sachedont at 2:45 a.m. February 7 McKein Island Mys at 7:30 a.m. after a very vestless night. Leatmight when I returned to the tent (around midnight) I discovered a horde of thing crawling into the tent. The muserable things were trooping over the thesh hadd at a rate of about 100 per minute. The floor of the tent was literally alive with them! I got broug with paint brush and jais and collected 3 jans full. By that time I was covered with tricks from head to toe and had that homible creepy - crawly feeling. We swept the tricks out of the tent, sprayed the entrance with off and Then sached out. about every 10 on 15 minutes another tich would thunks across my arm or leg and would require a smach or two so I didn't sleep too well - none of us did, for that matter. I sport the early part of the morning doing banding records while Larry + paul (chessed in their finest poins of jockey shorts) made a showfund court. We went out to the ship to work the blood samples. Has went out and bonded Tainy Terra and Ralph Callected Ballinisi

Hochwan. C.P. Joural February 7 McKean Island Later Kalphard I cought and recorded then finished the string off.
Between one and three p.m we sat around and roasted because there was hardly a cloud in the sky and the wind had slacked off. around 3:20 p.m Ralph and I took a bunch of white plastic strypo and some 7A bank and went out to wing mark some Freater Frigate binds. They were & Tremely Jungy so only 21 hinds were wing togged. We used a white-white combination which shows up fairly well. The first Audubon's Shearwaters and White the How Petrella came into the island at 1800. Energone went out barding at sunset but the moon was high in the shy at full dark and all had" ranging degrees of success (or difficulty) in capturing hinds. The Sooty Terrs in the Side were the only ones that could be saptimed in number so all of the tern barders worked in that small area. The moon dian t set until 11:30 p.m. When we returned to the tento the ticho were horrible both inside and out. We don't know how we ill get them out of the tents but we're certainly going to make an all out effort to eradicate them. The Tent that Max, Ralphand I sleep in in simply full of gorged tiches. Little aposts of plosel are all one the floor where tichs that here butter one person or another have been smashed. Things were so had this

Sunst Macrim . (1.) February 7 McKean Saland evening that Polysh and My packed up their coto and went down to the high water line on the heach both daling they that they didn't give a dunn if wares washed one them all night says just as long as there weren tany tichs. Ince I had to write up all of the banding records I decided to stay in the tent after moning a few preparations. Frist I carefully brushed the floor t walls of the tent, then my cot was gone one thoroughly. With a can of westeride I sprayed all around the the cost and then, for good measure, sprayed the legs of the cot letter well. Chances are it will all wed off around 5 am and I'll be later aline. I hast another of the many worders and joys of ATF Finally saided out at 3 a.m. February 8, McKein Island. If will be a relief to get off at this island for a change. The lichs have just about driven us all crazy. We've all sporting numerous tich hite or arms, legs, harde, nechs + all other points (both significant + otherwise). The sunf is picking up a little this morning but nothing serious because there is a long calmperiodisally. (We get creamed on the way out!) Raych fell out of the rall and I had to have on to himsard finally managed to six large works before getting out into open mater. Asparts

at 0808.

- Eural Feb. 6 +7 McKean Island Summany Sprag paint color - green. Collections were made on the meeting Thompson, Hules + Merrill. Sand experies encountered as that from Harland. To blive of book, 20 Soot Ten, 20 theates Frigate, to Common Hoddy, to Auchston is 50 Joby Tours were Captured and checked for wing moult. Gets parasites were collected from Hay- E. Ten mething, Greets Fright, Harrian Mosly Ten and Andubor- is Shermats. Fairy Ten were chuld but yield no parasite, 21 freats Fright bird wing tagged with a white strang or each wing. This patter show ago conspecually on hind in flight. Berline Bouples taken from As. Fright rest, Common Nordy nest, Harvairon Norly roost, Andrebon's Theoremater nest, Brown Booly rest, Wadge-tailed Shearrale great. Of Shorehird court was made: Britte-th. Cule 42, Loller Rlose, 48, Kuddy Turnstone 286 W. Tattle 9.

Hadring, C.D. Januar February 6+7 McKeen Joland Summany Red-tailed Tropicbiré - a few birds sitting in previously used nest sites. Total of 7 active nestr - 3 with nestlings. Population - 16 adulta, 3 mestlings. Vedge-tailed Shanwater - For Soo in nesting colony. Some Small nestlings. Build "I, 29 return. Andubon's Shearwater - 2,000. Some resto with eggs + small chicks. Fradults + 1 restlig laded. 45 returns. Bulwer's Petrel - # The Body, 30th, marking breeding status. Badults barded, I large meathing banded. Wh-thr. Storm Petral - estimated 200 on island at night. The full find, I hest with egg found. Counting. 3- Julian Fort 166 banded, 2 resturns Blue-faced Booky - 3 large clubs and several small contestration - 1000+ brides Banded 108, 159 returns, I recordies. 35 rests found with nestlings or immatures. The first that the Bran Godry - 4 nesting pair (3 with 2 eggs, 1 with 1 egg) 30 rooting at night, Borded 5, 2 returns. Led-footed Book - relatively machine and scance at present - 3 nests with egyp, 2 rests with small young.

2 rests with large young, 8 nests with fledged birds. No roost dut observed on Feb. 6. Small wort 2-01 30-35 bris en Feb. 7. Barded 6, 7 returns + a herovenies. Total population - 50

Journal Harring C.D. McKean Island Summany Feb. 6+7 Concentrations of \$ to 3/4 grown young along west, north and east shores in store walls and in getensire areas of corst nubble. Borded 44 , solutts, 356 northeig , 5 neturns . Greats Frigate - 107 nexts with egg, I with 2 eggs, I with small chieles, 46 immatines still on vists from last breeding cycle. about 500 adults + immotives. Borded 20 adults, 6 returns, 2 recoreres. Lease Frigate - Fina 10,000 fledgedt many fledged restlings still on ground in colony along east shore. Yen small mortality resulted from heavy banding of these nestlings in October. Wort of the for recovered hards were taken from hinds whose largues was badly smallen and infected. What half of the dicks immatine, checked still aboved aigns of smalle torsi but the swelling appears to be subsiding. The majority appear healthy and should leave their rests within the met several weeks. Total Population - 30,000 Britte the Carles - 42, 12 handed Warling Talther - 9, I handed Runden Trunstone 286, 4 banded Galden Plans 48, 3 banded

Burn Harring (2) Feb. 6+7 McKean Island Summany Located mostly on west shore - the largest in in the Sida thicket at the site of the old quaro camp. Eggs and young in all stages throughout the island. 7095 bunded, 192 returns, 2 recoveries Hay backed Tem - 2,000 mostly with fledged on nearly fledged your along month and south shores of the lagoun in Irlineire patities of court multe. 100 adults, 23 nestlings banded, I return Farry Tem - down in abundance with no more than Soo utilizing island at present. Most of these are on eggs. a few small checks. 97 harded, 10 returns Blue fly Morldy Ten - a few verts fort. 2500 to 17 bander, 2 return Hawaiian Mody Ten - down in abundance, not actively resting at present. Two wearly fledged young. About 150 brids including solitary rosters, 50 bended (r nesting), 2 returns. Feb. 6+7

Hornord Summary

Barding

,				T				
Species	adult	Sul-	Shim	nett.	Unh.	Return	Recovery	Specimen
Wedge-tailed Steaments	77		The state of the s			29	V	
anduloris Shann.	305			1		45	-	
Wh-the Storm Petrel	166			or and the second of the secon		2		
Bulners Petrel	8			/				The state of the s
Red -t. Tropeshid	9			3		2		
Blue-f-Fishy	53	/	22	31	11	159	2	
Grown Book	5					2		e Angles and Angles an
Red-f. Booky	to appear to the distribution of the state o		4	2			3	
Sooty Tem	7195				and the control of th	192	2	
Day J. Tem	100			22	4 - - - - - - - - - - - - - - - - - - -		process of the second s	assessment of the management o
Common Morlay	44			356	6 6 7 2 4	5		
Harrarian Norlay	58		6 P		†	2		
Bone Hing Modely	17					2		
Fain Tem	99	upo que de action que mandre que				10		
Lireates Fragati	20					6	2	
Joses Frinte							49	
Bristle - the Coule	~ /4		1	4 - 4	4 4 5 10 10 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			
Windering Tottle	7		more and the second sec			- Acceptance of the Control of the C		
Arlda Plan.			granges states and see					
Ruding Turnston	2 7						7	
inosta so.	8184	1	1 21	6 418	7 11	467	65	-
1 oras.	0/0			77.			4 5 7 7 7	
			men	v Varle	in 86	40		
					1			
		e company	of the state of th	1				-

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February 9

loading the boats for a lording at 0700 and started off in two boats for a lording at 0510 we pushed off in two boat loads and headed for the channel. The any didn't look bad until he get close in to the island them it looked really bad. Warm were brinking across the channel - 8 to 10 footers - making it impressable. Big surf mas crashing in along the entire length of the island. Around 9 a m, att, watching was more in and out histority, the ship flow the recall frag and we had to return. We unloaded the nath, healed then about a started cruised around the island to the millage.

Of the raft and went into the rillage to make a survey of this area. Max and Paul went to the lagoon to look for collectrates. Dich Merill took the shotgue and went down the isless to collect a few birds and I round around looking for inserts to add to the collections

abrady taken from here.

We were entertaining the idea of handing a raft and some gen to the layour and motoring down to the total Sooty Ten colony on the for end of the island. Shortly after arriving, however, there was a land Explosion as the entire side of the raft blew up. This effectively cancelled any plane we might have made.

for Coelesterates incerta and hinds. Found more worth mentioning as left the island around 2 p.m.

Journal Harry (C.D.) 1965 February 9 Hull Island Summary The to a 10 foot werescroning the bout Channel and large breakers along the entire length of the island no landing was attempted at the hind colony. On afternoon landing was made mean the old village with the intention of portaging to the legion and going how to the bid colony. The raft bles up and concelled these plans so we returned to the ship. The laguon was ourreged for coelenterates but none were found - it was mainly sterile. The ocean aide was too rough for diving in the vicinity of the Brownillage. Because the reft them up all plans were concelled and we returned to the ship and moved on to Brinis Island. Shiftetia day goined from the island will Di addid on to Enlerly Island. No birding was dire. Species Summony Soty Tam - estimated from the ships, thus, a poor estimate probably more than 35000 in the colony on the north and of the Common Tirely - 15 hinds Fair Tem - 15 birds Cristal Tim - 4 lynds Marking Tattle - 2 binds Holden Plan - 10 prids, I collected Knowy Trunstoni - 35 linds, 4 collected.

Hockman. (°.D) 1965 Sunol Hull Island February 9 the deflated roft out though the sunf. They caught about 12 big wares, several almost dunged them, before they got passed the sung line. The ship lay off Hull until 1800 and then deported for Brinie Island. Brinie Island Februa 10 arrived off the island at 0800 and made the time hardings through I foot sunf- ideal sunfconditions. lefter setting up camp Max, Lang + Wich checked the reef for collenterates and found one variety) to be abundant. The vest of us worked around comp collecting rate, doing barding records, etc. areund 3 p.m we discovered that one of the margation lights had lost all of its battery change no we shot off a flave and contacted the ship. Twithin so menutes a new battery was brought ashore and the hights never then set up on the north and south and of The rest of the day was spent on an island surry. During the survey a dead truthe was found on the east he crest. A wedge-tailed riemwate was seen glying over the southern portion of the island during the survey. Since the moon was so bright me sached out until 2:10 am helpe attempting to do any branding. The we

7. winen. C.D. Journal February 11 Binie Island We returned to compat down after getting up at 2 a.m. Ralph + I blood sampled Blue - f. Boolies while the rest hunded. after dawn broke no collected some note for Kalph. after breakfast Dich want out to the ship, More + Larry were for coelesterates on the edge of the rief, Ralph worked on his rate and I made a shorehind count. There his been a tremendous cresh in The not population on Brinie. The apenies here (Ratine goulene) was so numerous on the primas visit (nor. 64) it was devastating The reland's regetation core. In Moreonte, cut might, nata were encountered every 5 or 6 fect one the entire island. The were so alreadent that one person, with a minimum of effect, could capture 35 or to per home by hand! Last night rate were encountried every 50 - 90 feet and it took three payer one 35 minutes to aystine 17. On the direct result of this decline in the not population the negetation is much improved. Previously, the rate had sate all flowering parts and were growth off of the Portulaca and Boenhamia. Present, both here quite a Lit of new growth showing and both one flowering. He were surprised to find a fairly large Concentration of Gray. Irached Terms motering on is island in several colonies. Their success can ise, probably, he attributed to the low not population.

Harisman, C.D. Januard 1963 February 11 Dunic deland The sund has been ideal sence our arrival at this rishoul. Hopefully, we wan't incounter any more had say conditions on the remaining of this trips. We've already had more rough desidence than on the three priming tryes combined. I know I've had more town everyth pounding around and bring dangerd. It has been getrinely hat on the last several islands. During the day there is hardly a breath of air string and the air just hange. The sum is really hot- Jany + may both have hard, surbraned hips that are exached and Deeding a great deal of the Time. May is also peeling and blisting constantly - he's now down to the 3rd ling in some places. The have been about 100,15 rays working of the elect the and for the past day on so. is a let of oplashing going on. February 12 Erderburg Salard We departed from Brinie at 0700 and had no difficulty with the suf. (the first island This . Trip at which there wasn't at least one complete improved during a landing or deporture) Sighter Enderhour at 11 a.m and landed the Two shore parties at 1 p.m. Camp was quickly established and a survey of the asuth and started. Ended up the survey by banking Red - footed Bookyes.

1 second Bine Ital surray Feb. 10+11 Collinbrate collections were made by skin diving in the shallow portions of the reef. Fillsofon, only one Type has been located and collected from all of the islands. He suspect that the other rameties desired desired and to be found only in deeper water. That Shay-backed Tons were found resting successfully at screed locations on the island. much to our surprise. Both Wedge-tailed Thearraters and andubones there waters were banded and collected on the island this trip. Faring Terms and Red - tailed Tropicanish were scance during This visit. The Fairy Tens aremed warier than is usual for this appeared and, as the result, few were borded. Most brids of this speines refused to come into netting range (hond nets) Bright woonlight for all but 2 hours each night greatly hurbered the banding efforts on this island. All appeares were revisione and quick to take flight. The island's not population has declined drostically from that which attained during our October - November 1964 trip. The population has her reduced to about 120th of its previous high level. This reduction has had a marked influence upon the state of the island's regetation and, we think, and is probably responsible for the large breeding colony of Hay - borked Terms 19 rates were collected, mensured + checked for breeding states.

January Cinician Lie Havin C.D. Birnie Island Summary. Wester-timber Steamonts - 6 hinds offshore in the evenings. 1 seen one the island. Chirof 11 on island - 5 bonded, I willed Andribaria Shannotin - 2 banded, 1 collected, 1 return Pet-timet Trapichie - 13 mets (12 with aggs). Estimated 30 birda. 13 banded, 3 returns Blue - faced Booky - 30 blood campled. 50 banded, 299 returns, 5 recovery. Brown Booling - 70-75 birds rootling on east and outh show. 28 borded, 18 returns. Sorty Terr - small groups on the ground mingled with Hay-backed Terms. Estimated 2000. they-backed Tern- Estance with eggs and small chicks along, I went and south shows. Estimated 2,090. 85 barried Fairy Time - Colimated 350 mostly on eggs 34 banded, 7 returns Blue Hung Morley - Estimated 100. 1 banded Amaion Nordy Ten - Estimated 1200 rossting on island along north shore: 22 buded, 1 return Common Modely Tem - Estimated 2500 roosting on 382 island at night. A few wests with eggs. Entimer Gested Tem - 13 hinds seen flying off west show. Law Frightelmid - 16 (3 male, 6 female, 7 immature) Freate Frightelinid - 5 femilie Bristle-thicked Culen - I near lagoon.

Hochoto. C.D. Journal

Fdr. 10+11 Birnie Island Summary

Mandeing Tattle - 5 on an island criaint, 3 banded

Ruddy, Turnstone - 24 counted on an island circuit,

8 banded.

Holden Place - 6 counted on an island circuit,

1 banded

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Having, C.D. 1265

E-coural

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F26 10+11

Barding - Brinie Sland

	adult Imm.	Nestling Unknown	Ent Return	Recovery	Sylumin
Wedge-tail This					/
Oudshires Theory	2 2 1 3 1 3 1				/
Blue -f-Booky	35 14	15 5	299	5	
Brown Booky	20 5	3	18		•
Red-f. Booly				0	
Soot Ten	85				
Fary Tim	32	2	7		
Blue Fry nolly	22,				
Havinan Nodely	382				
() Created Tim	900				
Losse Frightituil					
Alata Fright will					
Buste-The Conter Wanderig Tattle	73				
Ruddy Turntine	8				
Holder Plover					
	09 19 21	5/133.	5 / 5		d
	Total		1		
		655			

Moskeron, C.D. Orderbury Island Feb. 12 relatings and volutes in the Cordia groves at 6 p.m in all went down to the south and of The island to a small Sooty Ten colony and blood compiled 100 haids in order to obtain 50 sangeles. Two people method the hands and Thee people sampled. During the first portrois of the island surrey Two dind binds were found on which the breasts shall bean eater off. No othe parts of these two birds had been timelied. This works suspicionaly like the work of a While barding the Red-forts we saw an ashalt return to the rest, almost immediately often being distribed, and hill its which. The bird landed can The next starbed the chick sere I times, rapidly, and then them it out of the rest. It is the first time I've witnessed this type of behavior even though we customarily band in this colony on each trips. The chief that was hilled was so more then three or four days old. There has been a noticeable I drop in the numbers of Blue - faced byshies executived things Tois Trip. The while are much smalle then usual and very four hinds are resting. The Fairy Tem sojulation on Makeun Island was also long than normal. At dusk we watched for skearsraters but none Sached out at 9:30 planning to get up when the moon goes down to complete the blood sompling. Tought will only have about I have of darkeness before sumine. Formorrow night, there won't be ing. Danding large numbers of buils on this will be mit to impossible

Mashiran, C.D. Endorburg Island February 12 because of this full moon. Trojerchied, are appearantly just beginning a new cycle. I'D there encountered from in very swell numbers throughout the trip. Very for nestlings have heen found to date. Last night on Brine Island darry bandled an Anduhon is Shearwater, cought one that was banked and brought one in to be collected. Late in the night he Executered a club of 11 Wedge-tailed Shearmaters and succeeded in capturing 6 which he brought beil To camp. Fine of these bunds were banded and one was We share decided we could most profilately spend the extra day, acquired because we were unable To land + opente successfully on Hall Island, here on Enderbury. This is superailly true with the moon rapidly approaching the full stage. We probably won't be able to accomplish anymore in the fire nights The could in two completely dark and ones. The full moon makes life very difficult for one and all. The got up at 4:30 just as the moon set and worked in the tions in order to blood sample 25 Ast Frights and 25 Che pred Bookier. The compling Took us until dawn because the hinds were both gringing and well disjoined. Hitting their immediality after the moin rate choise. I help waters much because the haids don't have one time to attle down. Tomget will be almost unpossible because

Frigues, C. R. mond Codechus, Stand February 13 the mon will be with me until down. Crenzo, be Il give the boshies a try toright. Spent the early part of the morning cutting wing the of officette Frightelinde. John after on on sarly tonight we'll altinged to put on a flor of at 0800 Merrill went out to the ship to run blood samples. Hate had wheaty been gone for about 30 mintes on a shoulfiel court. Around 0330 Paul went dive to the layou to look for shorebinds and to check recting conditions there, Paul returned around 9:15, perhet up a string of # 5 bards and went down the west shore looking for (Red-tailed Trajuchida. The rest of us warked to The frighte colony on the north and and then on to the quano The Greate Frigatelinds are on fresh eggs in the main tolony and in the smaller colonies that are located in the interior along the south and of the logoon. There are for meetling frigatebride on the island. Red - footed Bookies 'ai en eggs, at present, but a longe number also have small to medium sigd nestlings. Between the guaro pile and the north end of the island we find two longs Sooty Ten colonies. The colonies section all the way to the north shore of the island. The middle of the three colonies is on longe nextlings while the other has have eggs and a few small chuches. a few Harvairan Moddy Terns were nesting in the for (north) patch of Gration. One 12 grown meathing and 12 eggs were found.

Hackinson, C.D. Jennal February 13 Enderbrung school UT I p.m. he parked up some your and headed Towned the Seary Tem colonies on the north and of the island. By using note we were alle to trand 600 adulto before dark. Oft dark we tried prehing history of of their next but the moon was for to bright so we returned to our note and distan additional 300 bids. It wan I long before we realized that only one small part of the colony men the coprare their me actually on eggs. Most of the Sunda were on freshly that when chiefes. which rapidly fell yelly to the very commant Hamily Cake. Once this was decored we quilly) finished mys the loose sends and more of of After finishing by the words he went to the Cordin grove beside the guaro hay and Alerd sompled 25 Kel- Wited Bookies. Paul Woodward and Palish Kindpotrickalid most of this sampling. We took the blood samples only to finitivering these This project with the procedures wished as well who give to just of the less of the instruments used four hinds here hilled by the sangeling. Horning we can take 8 cc from Part-foots withink thing a bird. Of duck Tonight the Hunsin Maday Time some in It of the occum in lange, low- flying Therefor munding themen 50 and 500 hunds. I flores here will coming in long ofthe the last higher of the own fiel field. Allength to hand the willstone with the moon so bright it was

1965 Grandy All February 13 surpossible to approach the roset without flushing and all. We succeeded only in careting one him. flerhyps, if we had writed for several home, would be built had pad an opportunity to settle dem fortaince in the mining, while builty the Sorty Thus, his bringh to drive most of then army from the report. If we were succeed in visiting I this island when there is no moon we'll he able to hard lange members of this appeares - otherwise it injustably improved to expetime were then 1 Max went out to the ship to century the blood at Fernan 11/ 0800. I cented the ever out and put during on skinning set fix appearing. The rist of us begin putting rolored plestie stranson Sheat Fristelinds - slow work at best. At moon we quit to sait bunk and rest up a Lit here going back out. The ship to show party came in at 1330 and me knocked off work and joined them. The after sugar are entirely too hat for branding haids sitting on epp or small whites Mar in med me, upon his return, That the Explain had told him the ship was on alent frecause of the present intention in Viet Nam and might be andred Es return to Pearly Howler in the very new future of hope this disen't hy in tight we went Pago Pago heave our mail will be the vienting for us.

1969 C. Bernand February 14 Colorlary toland From what mige said the order to return to Part Harbon may come at any moment - we hope not; For the second day in a now the ships let in Sity is within some to show for a heach party. Twenty of ten arrived around moon armed with bags for sen. shelle, fish rods and 5 eases of been and I case of roof been. By 4:15, when they departed, they were well pickled and borsterons. Fortunately, there is no sunf to open of - if there had from they would have been creamed. In the evening, after it started to cool down again, Max and I went to the small Souty Ten colony () on the south and and banded 99 buils. Fifty of these were whiched for wing moult. On the way back we stopped and charled a Grown Booky most in which there were two small mesteries. The smallest of the two nestlings had been pushed out of the nest. Es Since none of we had ever seen how the smalle of the two chicha was removed We decided to meso around a little. The small chick was replaced in the next and this dien an immediate reaction from the other. By shoring, grabbing a flap of skin and flygging and by dragging, whichere method seemed to privide the best results, the larger chick som the spicled The smalle one, It took little more Then a minute for the small hind to be completely ejected from the next. The small which was too weak to walk Sitted on screenthe back into the next so its fath is singly The six antique of the ment until it dies of Exposure and on

Taylorin, C.D. charration or bette Our arrivaly now fully around (for a change) we took the large bird out of the mest and regulaced it with the small, wash one. The large chick immediately began protesting by eluching londy and pinaistraining went it made no attempt to more. When the parent returned to the most it settled down on the small chick and completely ignored the longer, more healthy one a outside of the nest. When the large which saw the parent settle down on the next it begin dragging and flagging itself forward in for until, finally, it succeeded in getting back into the meet and under the parent. The first in () In a first the sund his open with ELEN Kin. Red-forted bookies and Sorty Ferre - one groups for the group gives up to the grown pile on the north and and the athe out to the clamps of Cordia in the south contral portion of the island. The moon is completely full tonight so heading should be lots of fun and full of laughs. Hazzzy Valentine's Dang! Sached out at midnight.

Areiner. C.P. Common of the February 15 Crobstray Island Not mys at 0700 and walked up to the) lang fugate colony in the mean schmidtes at the north end of the island. In the myt Two and one half hours we bushed one 200 office of Fright and put politic already on each wing. The color pattern for this island io: Right wing - Blue, Left wing - white. On the way boul larry and I wall Through the lagoon looking for Common Hoddy and Sifra, - backed Term meds. We didn't find any Fray - backet Ten rest on the right in the lagoon but there were a fla Common Modelys says and nesthings -it was really that blistering hot this afternoon so we dishit do anything between I and 4 pm. The ship & third duty section come in for its weach party at 1 p. m and stayed until 4:30 p.m. at 5 pm we walked been to the two small Lity Ten whomer and managed to not 300 binds infly down. This colony has extremely small young and a number of eggs that are payind. Tought we'll attempt to work the Blue-food Boobies but don't iggest to have very much success. Last night we caught a few but hat no such at all when we tried to work groups containing more then one two two thises or the buils. This evening we looked at the nest from which we had existed the large Brown Booky chick last night. Both, chicks were being broaded by the parent some to our conquise.

Mariner g C. D Golderbrung tiland February 15 While harding and marking theath freques we) have come across a number of young makes twentiting eggs. There binds, which could probably be considered as subanutty, shell here some of the immative plurage on the town of and briest. The gules pouch is developed but not to the full setent of the first adult males. This pouch is also a pake ned than that of the related of en hind. At least 15 of these young males were observed in wester with eggs. for advict of black on swith the Greeter Frigate (Subsdult male, after doubt we went out in the full moonlight and attempted to work the Blue-fixed Boolies. We got 5 hids out of the first club and 3 out of the second. It was with a from the start. after 2 hours of thashing around we had managed to capture and bond less than 20 5 brids. We finish ended up with a total of 88 returns for The evening.

Januar Hestonian, O.D. Crothery ordered Ferning 16 lige at 8 a.m. with not a great deal to do since were already thousand there per state meeting colonies of all opening present several things. A fine day sty is entirely too long than island who there i full moon. Yen just can it accomplish a great deal except report the birds. Barding is almost impossible and thoroughly furthering. If we had hit this which we could easily this which it was in full darkness we could easily Sane derded 30,000 hours. As it in we have expended snough efort to have done so but have only bouled about 3,000. The layson is atill only about it full of water. In most places the water Leth is only about 6 inches. The island's regulation is in fair shape. Flowering opener wichte: Portura, Securum, Sida and Triumfetta. The Croposti &, Leptures and Dijituin, apparently suffering for recent a years, so just non starting to sind up some new deines. Devend justines of Tribulus that were found booked mentily but were not blooming. The Inines, in the rock jules, is in full bloom as is, the Cordin in the groom in the interior of the island. The lang change of Messersermoltes on the east shore If the whand to in & willow condition and blooming. Boerhaania is also in full floorn. Tought we'll have about to how between the sunsit and the mooning but this won't he sufficient time for no to accomplish much of anything. Throughout our satire stong vie're had moonlight jon the whole might. Tomorrow we'll leave him to apart one day on Canton askert helpe history for Pago Pago.

Frankman, C.D. Journal February 16 - Erderbury Island -Before the moon came up we alsohed around and menoged to bent 15 Blue - pued Bookies and captured 101 returns. This was accomplished in about 35-40 minutes. As soon as the moon come up the buds became impossible to caystine. While bording Red- footed Brobies in the Cordia grove near the guaro heap we found a few ticho. There did not apple to be a large population. Amegingly erough, we have found no thinks in either of the Two small Sorty Ten colonies on the south and of the island nor have we found in this on the buil that wer hardled on the month and of the island. It would be interesting to see if the trib population in the Cordin grove (which is right beside one of the ten colonies) suddenly increases in number as more and more shields are datiched in the tem colony.

Harismin. C.D. - Samuel February 12 - 17 Enderbury Start Summery Collections were made on the reaf duing low title. Very for your more wie located. The secf in Essentially clead on the Sigeths at which The full moon duing this what stay made randing difficult for most spaceies. Blue-found Bookies and Soot Tame were witually unjoiselle to Capture except with hard note. Harrarian Modely Terra, though abundant were impossible to approach. The ship half heach been parties for the three duty sections in the afternoon of these consentire days. The heherin of the even was mellent and so problems dendegeed line though a number of them were thoroughy intoxicaled by the time they depended. Close to 300 streats Frightebrile were harled and maked with plastic strangers on each wing. This Type of marking requires a great deal of This - much more them is available on most trip schedules. The fort that we had a fire day stey on this island, become if our mability to land on Hull They plimitted no to work the frigates. It takes about the minutes in on more to capture, had and wing tag is each buil . Fine days on this when showing the period of the full moson proved to be too long a stay. Hining the heat of the day Joseph Turno, were on present her course prost ageines, such as I amo were almost impossible to hand.

2 murel Enderbug Salard Summary Farmay 12 - 16 and from Sharmater - 4 brish seen (1 collected, 2 barded)
on guans pile on north and of wiland. Medge-tailed Sparnets - I seen offerere at durch on February 16. Led-tailed Tropichuid - 7 nexts (6 mith 2779). 23 banked 1 return. Estimated - 50+ binds. Counting and majoriting nost sites. Fine-fred Borby - 6 nexts with 2970, 12 nexts with Jang. 575 Sanded, 277 returns, 1 recovery. 800 estimated population. Brown Book, -35% burded, 34 returns, 32 nests with 2990, 9 neste with young. Colimated 150 . Red-forted books - 185 nest with eggs, 150 nests with nestlings. 359 banded, 248 returns. Estimated Sister Tern - estimated 85,000t in 5 wolonies all with Janded, 10 returns Alig-booked Tem - 500 along east shore of lagoon. or few Common Milly - 200 bride rosoling and nesting on wells in the largeon. 26 nests with eggs, 11 with small chiefs, 7 mitt ling nothings. Havin Modely Ten - estimated 4,000 rooting in Cordia nen grano heip. 15 mills with eggs, I small meeting + 14 adult bunker.

7-1955 Januar Coderbuy and Summary Feb. 12-15 Blue Alex Well, Tem - a for seen roosting on Sesuming. Fair, Ten - 5 seen at one time mier Lordin grove in the interior of the intend. Freate, Frientshid - 1310 near with eggs, 21 nears with smell nesthings. Many app proposed . Estimated 6,000 adulte and immediace. 293 borded and mon! I with platic Treamer on each wing Blue on right wing and white on lift.) I band returned also mercial with striamers; Leve Frientelid - Not nesting at present. Colimber 500 anulto and unmotioned using island at present. Tender Turnstone - 553 wented on an island circuit Wendering Tattle - 61 counted on an island cricint. Bristle - th. Circles - 44 Countrel on an island circuit Alle Plane - 78 counted on an island curaint Sinderling - 6 recentred on an island arount.

Bending

Book Feel Substite Town Led Return Record Specimen

Blue-faced Sub, 3: # 14 14 15 5 279 1.

Brown Booky 275 1 3 2 1 34

Red-footed Reak, 275

Red-footed Reak, 273

Red-tuled Trajectoric 293

Red-tuled Trajectoric 222

Sorty Town 1552 2799 10

Howaram Methy 14

And birs Shamter 2

Total 2211 2 2895 36 1 574 1+4

Total 2211 2 2895

February 21-25

Pago Pago, Amer. Samoa

Arrived at 0,000 on Sunday, February 21

which was one day before we were expected by
the people in efficial dam - even though they had
received and acknowledged several messages from
the ship giving the 21st as the date.

The first part of the stay was devoted to
trip records and reports, the last two days
were given over to correspondence, reading and
lots of ice cream.

As usual, nothing of an exciting nature occurred
during our stay.

Departed for Fakaofu Island in the Tokelan
Group at 0900 on February 25.... back to work!

Reef Heron - 15 reported roosting on the small island named Chinaman's Hat. I collected.

Blue Gray Noday Jern -

Common Ward Town - Present in small numbers on small islands along coast line.

Green - Engelisisted - 3 over Pago Pago Harbor - Feb. 24.

White-i. Trapeland - present - no estimates

White-i. Trapeland - present - no estimates

Lead-f. Shermater - 15 seen offshore on Feb. 21

Ped-f. Endy - 45 offshore Feb. 21

Andulanis Shearwester - 1 seen offshow on Feb. 21.
about 1 mile off shore of Tutiala.

inner Philippin ... 11.55 Hillette, invente to farmindo. March 5 first us at 0630 after spending 15 straight forming in the sach. The rest war a real hulp there I'm only arranged about 4 hours per night for the past to or of wayon and some feeling olighty Spent Hooky cutaloging insects and doing paper work. A total of 245 insect collections were made in the Takelane during our brief visits which probably only scratches the empace. On alter Island, the leaf debis was simply crawling with free-ling mites most of which were getremely small. I wan surprised not to have found any sanwings in the Tokilina but the entomologist from the Bishop said he found I sparson on and of the whomby. Contingo and a vin dommon a series on all the other whards ine work so it is something of a singerise to find The very searce in the Torkins. The anis had a complete power failure This morning That lasted about five minutes. No dawage was done but it consed a hit of specilement and helped buch the normally dull ships a contine. Euronte to primis do. Attail dimensioning day by any set of stander. a find finds from the Topplans. Since we spent to agit for mill sunt Jim som sningh.

1965 Joseph March Enrente to Jaminos March 7 Our organity expedited time ofarmal her him met been 3-4 hours because of 10 seried engine filmes. Certain critical retire ingine part one approximate in sad shape and there at fly pains junte available. The engines have hen chinged one 4 on 5 times today abready because of the constant breakdown. We have also free going thought into the wind and the sea which non amed some lost time. Orrival Time is now gomershat uncertain but hopefully it will be early enough for me to get on the island Chall up antile strong trumph for the anger- regimen let of mainly through and Afficient Rich History ong gard siens. Ofthe til det Trip of had requested that the door on the Jah the richers. Work orders were sent in int a cour would on the close - finding from post the job only took thee days. Appearently they tightened us the secure or sweet metry - putty here and time and called it snother for well done. As the result the din full off! The idists didn't do a thing to the section the resolut the attention triplered servers just don't have a time when the metal ill around then In complete from off - as this was. The ship's crew orling drilled 2 holes in the lot and return The das in about 20 minutes - without a work order, within - charge - and west injustant - properly:

There will be the Finish seighted the whered at 3:45 pm about I home lite than originally scholuled. This delay was In party to the engine troubles, partly to the wind in war on I party to a strong convent. We The Junior of at 4:30 and then family loaded the Source and headed in for show. The Tiven channels looked fairly rough but not too but from the ship, When we got in close they looked that, there waves as well as a calm period that lasted from I'z to 2's minutes. The begjest shock was the shortline. On in two previous visits here the twin channelo and the beach have heen solid sand. This Think a high rock shelf was Exposed on the shoreline I woth columnels. There has apparently been a reat deal of nough sunfalong the last shore of this what during the post three months. The Landing, mire an every one, is now definitely dangerous because of the expressed nowhs on the shore. Since if was late in the evering and the sunf some running days to 10-12 fait in the channels we ent with boat come out in one boat. This was and done became one of the boats is missing his two ite cross punts which makin it wortable and sufficiently worsely in reason sent. We waited until there wire a cour jurior and contituen on their way and they had no trouble jetting out of the channel even though the profes failes to start.

Mund 7 Ami the Juice the out is no had we have dended The setiminate as many that summe as possible. Fortunality, the namigation lights aren't needed as tout runs ain t mar hatory. We'll probably blood comple on the last might and May that the sunf how about by the time we are ready to leave. He're all very myery that The will be the last and island on this trip we've all been smeared evough abready to make this quite a memorable trip Ogain, or on all the ather radords, the Blue fored Booly population is in well below that of previous winte. Only five winty with about 200 build such, were woosting on the island this ironing. Home of these chils held too well som ofte the new woon had set and it was pitch dark. So our great dreappointment there is me active Dooly Tern colony at present although There are thousands in the Ein one the island. Max found in abundanced then colony in the interior mean The agree droggings that was full of rother eggs. The Since we arrived so late it was impossible to check The prime ten colony site for indications of breining successor faine. Conty a few rate line seen during the first Immungs hadding but Their were Extremely wary and my journe to approach. Two suitens were located in I do in the grown drygings and both were obspatched. Is other esto were fulled although an effect was made.

Much 7 jan jad The regitation on the island is still in a sony state. The only grun visible in that of the Dieterium That is noralled in the interior, Greng-They also, with the service of aboution, changes of Thibrium and Bairkeamia, is bruned off and Fried. The Tribulus apina, thoroughly dried out and very light in weight, are malling. One cont wall more than fire flet in some areas without Jetting several deron the back of each shoe which can be amendat painful at times. Evingwhere one books are large numbers of died Hermitid beittie. This island and for had a large Thriving Marmital population on our primers minte here. There large numbers were made prompts by the large numbers of bride killed by The Kater. Har with the cate meanly hilled off and The trible Corrage richard There is nothing to support such an normous population so, apparently, They are now dying in large numbers. He found several many longs coft - vodicil tricks curry about on the floor of the flourse this evening. These This are of the size of the ones encountried on He Keen deland. One and all, we're thankful that they sunt an plantiful as they were on Mckeen. Un effort will be much the make a line coliection clining one for might him the is the frist time we have ornine them on this woland - I think . facked out at = 2.0315.

Johnnad Janin Blind 71/20ch 8 · Back up at 0650 for a radio check with the ship during which is I requested that no boat run be attential because of simple conditions. Since the constant warn t up yet the only wouldn't commit itself on the matter as I had to stand by on the radio until 0710. At that time they request another raches wherh for 1200 home for a furthe report on the suf My some too felt musicable in my regular Ternis since so I howard a pair of the Taul Woodwards which are 3 & signs larger. Since the entire sich was out of these excellent walning was something less Then a dilight because of the million and one Tribulus That letter the ground. My other the and injections are orienting argue of healing let this process in oftenely siew. Both mox and I are alterating to sing the cute open and draining is that they will head completely rather than incerate decayly as our other enter did. The ulcerated wite. can be and are strongly painful and serviture at times. Hopefully, anothe week will see The last of the worst ones we have. Operating under the rain assumption that all growing some raid it land 6 hours of slage, I sached book out at 0718- frilly getting up at 10. 50 am. He king around samp doing jain and sins until the 1200 radio check and tion went out to make a nesting surray of the island. I mon't get too jo me aching too so I puttered argued with extensoracity and Red-tailed Trajectionale. shory the harmend side to the northerd and to the quant Mygligs in the interior

Jane - de l'and Tuntin comments on registation: Martalon igs he arment competing you and in regularited only to one secrety point that is in become men the The second on the Tabuting 1964 many is still not in swidence in The interior. Aside from the Securion in the interes the only plants that are in good constitution en tros along the heart west. There exercise, which are all in bleam, enclude; Boerhamia I down to variety), self openies of fortulaca, Tribbes and Sida. Only in a fire place has any heating looking Grogortie han found. Inthulus is theriving in The old more shaping where it is in thick green most covering nections by to 100 square fact. Ingramide and all other years, except the th. Ingst Brown Borry, are quite inactive. Only thee Tropichis mest (129), 2 large restling) were found withing and on bud are engaged in arrial don'thing mean the lighthouse. Red -f. Bookies and is - found booking and at 2 low point in their Let might ma nather Trange on moofer as chall - ... wir was concerned. All of the Blue - facil Booky war brief randy in though so dien it disturb There instill an home after the new moon had set. It was and and at till the, botted. Four different people worded the fire class all with the same result. Paradoxicity, The Tor Mini- gotter Booky claims and that were worked held in waterpies. Harmoly, Red- four prinis and obegains at the

There 8 dightest disturbance even on the darkest of nights The have no explanation in the consilete reversel in and wality of the two species. It is pudueletel, -thereon, that, since the Ben - faced broken were so Junyery on the first minutes, The will be so just of ingrounds its as anything with by the fourth might nere. This congeled with the small population that as judent obser it appeal to well for our chances of banding lange number of the - feel bookies dung The anormore claud of Looky Terra that has heim hanging on the island - often at & time heights There sione airs of laming down ; the ground. On several occasions today part of the flock come as noisely down and havered a few feet from the ground. just it auch a longe number of bride cettled on the greend mymetan , who taking flight again. This is The sing whenter. While on the subject of Sorty Terms, The westing colony that was just starting during on I'mile wish (in the interior on the windward half) as well as a me- recent colony up near the jums disjunge failed. In a numbers of him and noticed eggs little the ground in both aring Signs of often heavy out in the recent post are a number of along the intime length of , the Leanard shore. In hear drift line extends up onto the beach crest. Many of the rockes previously used by Red-Tailed Trapiclarita for ming silve in now almost completely borned by some. Oling the blick miss the two courses a

77/and 8 were sing of rock just in who for to first above the law water much how her completely suggested which makes endings a little hagardon. Mean the light have a sile of about 100 cocongles and There are the track death de social son the some origina that water had run one the beach west there. at least two litters of Frittens I have been En Rocated and hilled and 5 adults have been thilled. In walking around the island last night I saw only two cats in 2 6 hours. There are story agreement to effect the brudingsuccess of Fosty Terre on this island. The sul abouted trains so we plan to blood sample Tronight. Last night their was a wind shift back to The round sorting trades which show helped smooth the seas, and thus the end, ent quite a bit. If the wind and seems hold we shouldn't have any serious protiene with the sung. after dark I would around in subbish pilo and in mereby regitation for concentration of Tricks. about 1 from I searching, some of which was apart at the Lesa Fright colony, failed to then up anything. Two sire Tiche were found would the sing brilding We all sached out until 10:30 p.m and the got me to do som Alord campling. Letting 100 samples 1 (25 Red - Goot, 20 Mente, 25 Lever Frigate and 30 Blue - f. Boshy) Took all fore until 1 a.m. Since it was theating Sim again (we had a hard but brief whom soulies in the evening)

7: 19:5 Tyonas 3 in shritand to company and sut. Decome my poe muit so bond in my shoe ed have Formula a pain of Ragel's which are 2 in a him. Originaly, I was wearing a gine of 1 June 32 men de met næmet minima a toping up of my artile from walking chi is so that now its a trace up as to which gricerous - 12 to the antile. The grite grite mainered inthem if you as anything to hant your Let. lute raying become parigul, slow healing ... Juliars. The comple act of wearing whose is and just interior is some most of the infections from falling. Once you get an infection you get am jet in the sources and in which you append half of your time truiting your wounds and the other half in withing then and making. Them mores. The bird situation here is bod. Only thee chibis former up Timisht - amounting to ohn - 700 birds (is compared in 5 clubs for 1200 buils lost might.) The heach east on the Bernerd side is almost completely dervid of Emi-forced Bookier Tonight. I'm beginning The words when they all one because we've seen very In The found at sea this trips. This must have all from midnight assention.

- innat Much France Holland finds wint out on a blood run at 0800. The Fruit that we suffered to what sees because there is were in marken placement the stanger to give minutes. When we should surplied the design Frigationish that might us yould that wort had very bally soficient lancie due to enjoyee, harding. On the List Try of any platagraphic backet sevent forgation on the island appearantly at the bands improperly on the trusure. Most of this bride should be away from their nests and your more In more but all they do in sit around the it is and only. Most of them are very light in which and shearily soiled from their own droppings. at down that more than half will survine. Cyprisate, Janua is on the meswing again winder and the manned. We have and frequent, fort brief chaving, Terryhart our stay. On the result The might dong the beach crest is deginning & whom we seem of unewed wigh. Marin ant one sat last night - a lactating Last might Works complained of standarche and morning. It said this tongue was smaller at the base with and the off the opport from in this grain were swallen. On the of This we show an ord cough so at 1200 we sent thin to making to be when out by the medic. This you in one to the had infution the has on his lay or Mrs. - from somewhy inter fulfirent.

Marin older They and I the thoth will have a number of Indered infection in our feet and lage, Some of The soremine in starty gaing and of mine and they are beginning to had from the bottom up. I have also her having some troubles with the lymph glands in my frien. This is nothing new, hencere, since on every Trip, once Lacquis some cond infections, the same to They has happined. My infestions this time have been more gamful, Extensine and slow healing the on previous Miss. I say just about reached the point from which I'll be awful danned glad who this trip is one. I'm getting tried of some fact, core legs and some grain because all earning to make life muserille. aside from walking around observing and taking motion the linet much here to keep us bong during the daylight hours. Consecratly aims most of us ware on Salieghtful little acher and pains. There are no trojucture to each of. The frighter are quite toward and my growing as one not going to allength To wing to Time I throst me bookies are on the which wire the way and small brick are moneyistant. The emplies in the too rough to look for coelecterates on The ideal. To we sit around their to look bury all day long. The boit brought Merrill book in at 1300 and went out with Amber, Turny didn't look too red hot when they Light. The bout had no transle at all will the suf.

- in many There asked For in 3 Vand indde a shorehind count this morning (diesel some and in minhor or joiner shorts) and found only two - acien acient: Atollen Plans (25) and Wandering Tattin (8). Ins is an extremely low moulant tout for an island of their ring. It is very interesting to note that Time are no Knowly Townstones or Bristle - thighed Under great. On previous visits the shorehind totals here han with regulatible. Paul noted that a few of the Golden Planers were meanly in full breeding Sumanze. I character if high water in the recent post accounts for this law totally est - anoth hickating familie. Jacked int sandy in the evening and got up at 10:30 the position in I handed until 4 a.m. and 100 and to get 99 will my blinding footwork I Flanjer uperd. By Ham I had one solid cramps in It left fort on I northed back to the house and entit it a might. The the is feeling better with each property day. Tomish I corred about 3 2 miles before The too act I mys The much. The Lyngth gland on my left side has lost all of it sound and and . How the one on my right side in the only one that is to thering me. The net result seems To the a general windle filling of Tiredress and Istal tick of energy, in spite of the fact that I had about, Theres of sleep tom. I won out by I a.m. if it on it imprise toronor I'll go out to the ship and take The rest one with what there who has been intuited to the chip for two chips by the medic.

· 1 (...) marin thank Habi was running a Ting constinue and said in infection in on tymped fande so the medic granded him. Sur one, one cut a vin, my rounds tonight, as soon - my light hit of the cat turned and non. Frie afterson al Samuelon found and collected a Just the for me. These came from a charge of Leptuna. The tick seem to be most president on Red fortest Grony chiche and mesia. Fached out at 0 500 just at false dawn. Hofarch 10 don't might the Chie goed Gooding to theren of very common on the south and of the island. at 5 p.m a buriousles court thered up only 150 binds on the south and from a point even with the house to the southern howh crest. Only this date formed up later in the Red - footed Booking fried up in two very large claire in the interior on the conth and a gain held pretty. The Red-fort clubs Fifth Little than the When-faces for orni recon or other. The behins to contrary to all previous regulationals with the two squies. Southing the first browning, authory wisely scattined, have been more profilable to work The the large and Thomps this misit. 11:32 The cate as wary as they are it ion to likely that will be able to improut the remaining ones on this mist. It may by him in som as a hight hote them ever if they're Enter my min wearing they are in which speculant

Jimmal! - Jane Loters Figured 10 112 andre This morning to the delightfully inspiring recent of in the sure surf founding igen the shore. He jumped out of his ran to the wine and sent enough: This it was - insumer and! The museiable wind the shifted back to the 11E and no running about as myon. Even total The war in calm on this side of the invest there is a tremendous ground overland this is really punding on the choic. On the southwest and of The island there is at least a 25 foot wave breaking and reaning besutiful roostertails in it room in. It if The sunf hote like this Tonour we won't be going anymine. The waves an breaking in the month of the cirannel and since their is no intimal whatsoever the channel is literally one by maso of boiling water. issays stripl we this on both look like a dead calm. East the bitter part of the day rooting around through John for him tiche. By purling up intice plants ing! then founding them on a flat round I managed to. edict what 80 tiches in 3 hours of actual searching. (mee poced in a jon and monitored the tricks become quite I what while ago sixed ware their water up the January with 100 feet of the ligner. Their wants are already Lower up west 150 feet of the hinch and it is atill low The wings made The 1500 radio church and unnounced browning that the host would be in at \$ 150 to judine up. Mon port hand at thin. He will bait until town on morning

the win it is In see what the word in lake he fore deciding what to do. Hat in The so cough as it is mon we restainly don't witerd to try going through it. The waves he heaping 10-15 feet high at the month of the channel 120 feet out from shore and since There is no hory intermed where there will get wyself on! to certain, We can either wait the and out here on this what to the detriment of the schedule or we can hand all of in gian clean across the reland to a channel that is calm (but full of 7 port they Scharles). This would mean farrying all of the gen about 1 34 miles but, all things Considered, that would probably be better than waiting for the sunf on This side to aboute. The really odd thing about This is that on the learnest since, where it is the worst, The are look perfectly colon. There him there a whiteap win all dig long. There must be a big stom growing to the month and west of here that is generalis this and. It will be interesting to which the weather supported if and when we get back to the ships. (Wichidal liter no storms.)

Sached out until 12: 30 am and then banded until dawn. Milack 11 James deland There were in big white of the - freed toolies on the island with we started sist out burling. About 1: 20 am it started to her real hard and the rain I in down pretty ham. We thought this would be like all I the other brief shows that had occurred during our Ting we we kept on burning for a while. Ifthe about 15

- in it is and Filman 11 minter of very heavy rain and strong winds we -carried it was I going to step for a while . By this The our markange bands were stretched and our dight were all istury on the trudge of our nows and or were completely assaled and chilled. The rain lasted for west 45 minutes and must have amounted to He returned to compo personged clother, repaired Our headlingso and went out again only to find that The Blue - faced clubs were sotheredy nervious and quick to the glight. Granso, we thinked around in the chiefs until false drewn when long their ficient inglossible to capitale - due partily to anothe sain shire. In the first light of dwn kick ord went in to have a book of the short " clanned on the east and of the inter. It was loved with Back funcil Simh and was simont completely colon-quest for some enge of sorre it booked very good. When returned to some it of our still juling into the west 2. v. 10-15 feet high. From, mins a shed wich had impromised, we handed our ruft and all of the give and to the Southwest shore time, hours the ruft up and the light pulling it along the south show the first comment. We contained find my channels that booked good. The Fentire bottom along The was comed with algai and was chipping. Sine The most form we were against wir couldnot haid the in one if the columns in the face of the 8-10 foot women In how poursing in. So we here't in going around The sout show - whom I a miles - to the shoul channel

The in the James Johnson that had been calm sarkin in the morning. It took un until 9:30 in to rough the east shore. The ship and the other but in to meet we as own no we silend the channel. Ince we had a makeshift my we had all courts of problems: 1) The noff with the Thro wint section missing Horry 2 paddler (and 3 boards we prihed up for Their surpose) in 3.) a partly deflated bout and 4) I broken strap on the motor mount which and him replaced by several prices of mylor cord. Is in exert of this we changed out into the channel start the motor and started morning. at The month of the channel the motor mount gave way (leget he the fact that the boat was partly deflated) and The motion was drawed out completely. Every one started partie from the with board and public until the The boat come in and him us a line and started Towny. Just as it loshed like we were clear and he made a clean getterray a 10 or so fast work roared in from mowhere and airrost upset both boats. To Fittingly, The ware was I breaking on we would have And it. at This point we were about 250 yards offston drusty would from some very by said. If we And lost the motors or had him den ad at this point we would share had it. Commany in got out to the son and me taken abound rapide. Out that we all remed a sigh of richiel. In with rait no med was completely dimolished in any in a mound the ref. It had about 25 min it bother - some as long, as a man's head. wir sinder Take on viry lang & such out,

- in a The Sandy Minderson with 11, mon 12 Armind of a similar at 0 800 and dragged the ander skatt ifterwent. Max, Paul and Al Samuelmon looded This bear into the or the whole and headed on the smain larding. The rich of us loaded our gear into the rubber rult and winded for Moth Upmay arriving there at 11:30 cm. He are lench and the conducted an island survey. Very for that tained Trapendinile were present. Phoenix doland Pitreia wire fraging and The island in longe numbers in the middle fast of in day - isterated 2000. Christman colored not a mon in the interior of the island during the day - fairly Corner around the sayis. At 1500 we began blood sungling, doing tholnix thank and Episton orlands. Officing so samples from each aprile took south and mainly because the Christman Islande hem. I very abundant. Styped and Truved to bunding at 1900. We plin to obtain additional samples on South Goh when I and Inthe Tolon. Barding went well ever though we we are still still and tried for yesterday's long titel The driver of mis. On the may into the boat channel we encountered a sump of approximate 400 of the small dolphin spices. This one agains was present here list March, but was me the in jum or in november. This delights is very small (1-5 fet), which in coloration and very acrobatic in holist. The me whrange incounting in the shallows near the breakers in Cook ordered and the Lunion boot landing. They In center, has in the wan and sinder several times before felling Such in. They was i'm anothing out of the house antice that "-come with significanty, This is a nather stiff,

Mise of 12 Mit Man, Christing bund anch - which posture that in letter illustrated then remarked. The dayshim ranses up in the hate to the 3/4 of it light is regulared. The toly in mighty would, the head in held high and the entire body in the the mountain of the threat no been lost The delignin, still rigid, Topples forward outs its lilly. There coming through the channel we had them 15 to 20 dup in all sides of the rubbi rolf-many close enough to the sides is he teneded with a chart parable. Then undisturbed thise this dolphine is against a great deal of This in the shullows, floating with their dorsal find Appointly bashing and relaying in the own. They can be observed junying throughout the day. On Mith Mysen, Dich Merill found a Pholine when the war pare the well rubbery like on that of a reputali. The and last remineran derio and pression so we broke it is irreport the contints. The egg was met menbeted but was apparently fertile. Marill finished his strong and sacred out at 1145 because in had to make the Blood in. Parple puit around 1230. Anha m! I hight banking until 3:15 am. Jima for tiche him evet the but sould find no concentrations. March 13 Cook Mand, Christones Head dit - at 0600 and finded back to the man join the drigo Marrill off and The healed for Look fad sump set up by 1000 and But and Pulph ment out. I wandered around the latered banding and and wish a met until 12 and The returned to wake my The The two in ands the send then aft Merrill. Then at 1300 I cacked out for an hour.

in it thistens oftend There are don'ty Towns in the within on the south i I look - simal the I - but appaintly the area-t Mintelle og not tilg ne nesting doesn't much mitte, heave of the moon fill. I will moon will the says got ail sont what I have the sooties and the virtually layer with to day, alt this evening In my to he will to my trough for 30-50 blood somplin and possible a for more to bent. Tonight we'll just wash around all one The rely maining ingstring we shappen to sur across. There are lots of odly and sale on this island, that bi ne ner had time (or lattice) to bank so tonight me . A work the im so well so possible. We said sintended to do some diving in the logoon off of God Dand go 3 ountries but won the to the strong winds. "A steady 20-30 mps wind his created I feet Fine and is charled the water too much for good mishely. The entire lugson, on this wide of the wird, is my muchy at the present time. Of 3 pm. Raychard I haded counts to bond Red tailed Transmide and any showwaters and periods we could crythine while Hules went north. a total of 10 tropichido were Juni. Hawaian Maddy Timo his rebuilding their 11 to, a few abridge size sque and 0 4 and chicks were Jund. I'm recently fleshirt Common Modelys are scattered The on the water. Whout 200 Soots Ten mesting her warring about in the think underbush on the south and word in the regard and on the reage of the survey of the so from the last breeding colony. There and what 14 with Ten mestery on the north Send

1965 Cook Island, Christman Island 7/mon 13 and simil immaturer flying around begging loudly from the companying adults. Larry landed 11 mostlings along is a northwest back. 7. I should until 1230 and the results were as experiented. He canget small numbers of soing species on the island scupt the white the Stom Petrel. all species were seturnely guingey which recessibility the use of noto. The Sooty Terms birded nor blood sampled any. Once flushed all appeired Et be cought off guard and caystered general.

Flow Tales, Christman Island 7920 ch 14 Dince it was low Tide and there was tany need It's thing one to Moto Take we all slight late This morning. Finally get up at 0900 and broke camp. The This to Moth Tabu was, as usual, a rough one Unisting into the wind and the works. It took 14 hours to more the This and we all got waked because of two foot voice bing general by the strong winds. The regitation on all of The small wlands has him land and grien with most opinion in with flower. Recent rainfull there, aggrainty, been good. The coconet pelose, howeve, are brown and unlestity in appearance surjecting that, one a End don't period of time, with The told rainfull hour of bear an ficient. Cocomite that were shope open contained very habite mich for their sing. so were from the showeres and petrets well just he able to thend in few rolls and inter as me this on Good Alford. Philips added Peters are wery where on this island. Morning are water just about every buch. With This formitten it shouldn't be too difficult to board on 100 Times in opite of the really full moon. Christman Johnson one very scarce suicet on the east and of With Tohn so we promote won't had more than 100 or so. Vinger we'ren out of number of bands. Tothings I trid the number 5 size on the Phoening Lordonds and from that it and off the first with save. The number 3 sign Pholing orlando very nicely if it is put on carefully. all the ones I tried some fuit in the tarmer a should not effect the bid

· - icomal Moter Tain, Chustons orland 1. Im - h 14 in way was astrongh they may were factor than the months it's that we mounting used for this species. From the works of mitting number 3A band would jet the Pensing Islander that there a number 4 hard. it in it is interesting, on future tryps, to see if the much 3 Sport der ween faster than the muche 4 band. Made, Tailed Shewwaters are quite abundant along the mostin and vist shows and in the interior of the jisherd in the destina. Fin On Moth Upma there in vin little Extense and the Wedge-tail population in quint many expertly. file non out of #4's around 11 p.m and switched over to the number 3 hours's just long everyth to use up all of the incompate Things on hard. Finished bending it midnight and sacked out rought because of since to bush camp around 6 a.m. in order to get boch to the doch by Ja.m. Money 15 Motor Take and Constant to Relumpe of the is it 0620 and quien brance comp. In the bout from in In the asce of 0703. This morning was heartiful into join listly sound and dismost no wares in the ingress was a large start braning to the east of un as me showed in the per in the movement intit shin't cutch my with us. To seem The orbitalist out to The carried product the two rubbes - Leftert. Underson ja Pilmyra by 145. Did paga who indown odde ind ind hipe having out at 1330.

Bluma on all Similar from mound milety and sent the inhabitant in with the con iron 1400. Lest night I went To see the only or congramm about my coral infections and the immediately placed ine on restriction for the inain. Is now in addition to a daily shot of penicullin I were its coal the infections on both lega in a fot water I the morning and Inching. Each bath is followed by a shifting fourful sersion during which the infection of the wound by means of a g Q-tipe or through the use of some sort of abrasine object. This count is dit because the center portions of The infections in planty stinds. Bernen I. The I am free to do as I wish as my stay on the edge will be dero Efto bonding records. find paring and complete final try invalous. Pine 17 Paragra de la Just the this day carrying gen from the lat Inner in the afternal all Trush and continues in the afternal Little of surprising and regard them. Recomplete bond information in many I mits flow My informal not that holinean 500,000 To 1,000,000 order There were coming the running on the stand for on in to the affer. Shire I'd In any much for in. The . winder to be get get up t will a good until fr. m. 1 18 Theren der William I think of the gin from the late minimised . I The similar arrange in according to a danish

Minut 13 of annountion boxin. Just a fin itims left to in pire. I away but ain of do inned more until I file gig hein med I, the groups assore is thought think to the ship, Ones it is abound and of an journing in an ing shirt and some The coust injection are showing great proposenest. Tribuelly all of the inflammation is Ment gore and some gith smaller over home clothed the day in a and week in. The days and dayseen one and Thill finite times but they are also downing along mich on onother two or these days they obsuld all he will on the way to complete herby. Jackel out at 12. Constitute for Pearl perhon Heider for more at least another 3 days should This morning the wholeboot was sent in to pul age the sure at the first light of dem. The ship them policed a remove and morel on to meet the whole with full power, by Engli 0830. Well, it finally harpered on one of these trips. Some a Rus Snapping, point was a get from the fantail of the ships. Com fellow just started to Take a task and then spit it out because the arising the gardie and he was the only one was buches at. Une film the one his piece and just jot an west stomach. The

Comme the That men are a sout in fortun 12 nouse the was manines The fourth man went while thoy and are about a pound I The find and antitue 6 promes into in real wyling. This and in some for some in some and in softening bod shape. all of This michine enflowing singly treams many frogets part somet believe they are malmarke to such things. The " it can't suppose to me "attitude gets more payale in transle. Thoughout the trip we have constantly made it a point to say something about the clarique of fish, porcomi to the cremmen whenever they were fishing. Jesterday when the compage that was cate was complet come one remain that they let it want the delicious and I retail I women't not that fuch ma but. Ironwoodly, 1000 of the now who in our new halow suffering from The menting of was spead of men standing there when I - That statement! I restainly though this war to en sistettin, den of the porsoning. The Mender is the component was fining the fish pressoring - in the michin Ada get and the modele was broken of . Franchal som down to the Chiefes question and of mind on his own to remove the medic. The fellow is now in the private bed tiller Food and me. Against while ago in it is a common support on the wet short a weeked his back. Ille sorts of his Timp as ingraining it prisent. It is cirtaining a - an my port his ties of mining them a way of ord annie. Washed on a little passing work environment tooling. Hot much in a comment wine of proceed of the gin whithe common Host very from the obstacl in Tought. Sachel out at

7/2/1. - (1.D) Course to the thinker March 20 It took a ! morning to get my wish treatments as I orient get a timing accomplished - not that there is a great duce to be done at this stage of the game. In the mountains Howen + Wiscoward Amil I divide Marriell pullered aneul puring mangation register & May justiful around with pages -One fish porming matin in up and around this morning. The fellow with the worst case so also greatly improved and in filing geneth chappen This morning. In side are sunning fairly smooth me have bein making ixcellent time - around 1. or knots good. We ne abready about to have a head of schedule. Armal in set at 1/00 on the 22 mil. More ship problems; on min fell and is behaved Ji have shipped a dich was in martin. Another men dropped about I will trays on sho fort and I bewind to have Iwhen the the ship! a corporation about sain to go out of his mind. March 21 English Enrente To Fearl Harbon At ATF doldrums have now set in. I have a hashiti ins combition and can less importation at the priesent Time. Will of the trips sum to end this way. On noon as you leave The last isless and head for home you begin to relax and then the tried minimum since in source of 15 lenter of the till wining in the Park parks and me This up by 1300 homomer.

Swinte to har theren I've and an jetime share some nimer habe improvement down the past 24 hours. The extreme tradernoss is ragerilly chare aring and time are not from large daily export in each of the nomes. At print they didn't rangement to will to treatment and a static white was soon rive. I realment and marines multimore were changed and since The improvement has him rapid. In all murhus of Sort Shearwaters have been flying the The only Through at the day healed NNW. Most groups in missind from 4 to 7 hinds and There were quite a few white traveles. I few doody Terms at Theoly- tailed Of any opportunity, since collecting them on McKen Island on February 7, we have watered the Thee willies of time. as the result, although their was in him mortality, all of the battles contain a mun- , of healty and active agreement. This is The good the se show managed to night with aline There is an entire trype. Lifty realing them in the bottles with inecessath tops we have not disturbed then I and. Hothing was placed in the face with the tribes or in the price of pages times or, in one enstance for The tick willetel or favors, ich cotton. They were 1. I find a thing and were mit placed in the refragination in mind indication wie on the hops. and intell around 0330. What is went with the sate folige went out. Frank, Third up it the The state of the s